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SUMMARY

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STUDY TITLE

Cloning and Characterization of the DNA Sequence for the Insert and Its Flanking Border
Regions of DAS-44406-6 Soybean

DATA REQUIREMENTS

Not Applicable

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STUDY COMPLETED ON

28-JUN-2011

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Cloning and Characterization of the DNA Sequence for the Insert and Its Flanking Border Regions of DAS-44406-6 Soybean

SUMMARY

Soybean (*Glycine max* L.) event DAS-44406-6 was generated by integration of the T-DNA from plasmid pDAB8264 through *Agrobacterium*-mediated transformation. The T-DNA of plasmid pDAB8264 contains three plant transcription units (PTUs): 1) Histone H4A748 promoter, *2mEPSPS* gene, and Histone H4A748 3' UTR, 2) AtUbi10 promoter, *aad-12* gene, and AtuORF23 3' UTR, 3) CsVMV promoter, *pat* gene, and AtuORF1 3' UTR. In addition, a RB7 matrix attachment region (RB7 MAR) is located at the 5' end of the T-DNA insert.

In total, 13659 bp of genomic DNA sequence from DAS-44406-6 soybean was cloned, sequenced, and confirmed. The cloned sequences were comprised of 1494 bp of 5' flanking border sequence, 1885 bp of 3' flanking border sequence, and 10280 bp of the T-DNA insert from plasmid pDAB8264. Sequence analysis confirmed that DAS-44406-6 soybean contains a single T-DNA insert including the RB7 element as well as an intact copy of each of the *2mEPSPS*, *aad-12* and the *pat* expression cassettes. The analyzed sequences revealed a three base pair insertion at the 5' end integration junction and no nucleotide changes in coding regions when compared to the expected T-DNA insert. Sequence analysis did not revealed any novel open reading frames (≥ 450 bp, 150 aa) spanning the junctions resulting from the T-DNA insertion.

BLASTn search of both the 5' and 3' flanking border sequences against the soybean scaffold sequence collection, a sequence assembly of soybean genome from William 82, indicated their identity with a segment in soybean chromosome 6 (Genbank Accession: CM000839.1). Additionally, the T-DNA insertion site was characterized by cloning a 7762 bp genomic fragment from the non-transgenic soybean genome containing the identified flanking border sequences in DAS-44406-6 soybean. The sequence analysis revealed a 4383-bp deletion from the parental locus at the integration site in DAS-44406-6 soybean. Further analysis identified an

open reading frame within the deleted region. However, BLASTp search of the identified endogenous open reading frame revealed no amino acid similarity to known proteins included in the GenBank non redundant protein sequences. Overall, the single insertion in soybean event DAS-44406-6 is located in the chromosome 6 of soybean and a 4383 bp fragment was deleted from the parental locus as a result of the T-DNA integration, but no evidence indicates disruption or deletion of endogenous gene or regulatory element at the insertion locus.

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Regions of DAS-44406-6 Soybean

DATA REQUIREMENTS

Not Applicable

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Title: Regulatory Manager

Signature: 

Date: 28 June 2011

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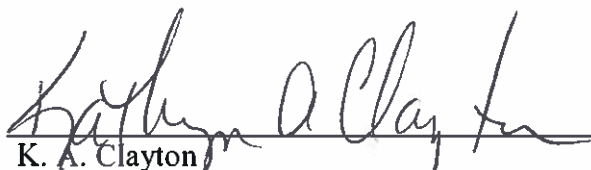
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Border Regions of DAS-44406-6 Soybean

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Cloning and Characterization of the DNA Sequence for the Insert and Its Flanking Border Regions of DAS-44406-6 Soybean

ABSTRACT

Soybean (*Glycine max* L.) event DAS-44406-6 was generated by integration of the T-DNA from plasmid pDAB8264 through *Agrobacterium*-mediated transformation. The T-DNA of plasmid pDAB8264 contains three plant transcription units (PTUs): 1) Histone H4A748 promoter, *2mEPSPS* gene, and Histone H4A748 3' UTR, 2) AtUbi10 promoter, *aad-12* gene, and AtuORF23 3' UTR, 3) CsVMV promoter, *pat* gene, and AtuORF1 3' UTR. In addition, a RB7 matrix attachment region (RB7 MAR) is located at the 5' end of the T-DNA insert.

In total, 13659 bp of genomic DNA sequence from DAS-44406-6 soybean was cloned, sequenced, and confirmed. The cloned sequences were comprised of 1494 bp of 5' flanking border sequence, 1885 bp of 3' flanking border sequence, and 10280 bp of the T-DNA insert from plasmid pDAB8264. Sequence analysis confirmed that DAS-44406-6 soybean contains a single T-DNA insert including the RB7 element as well as an intact copy of each of the *2mEPSPS*, *aad-12* and the *pat* expression cassettes. The analyzed sequences revealed a three base pair insertion at the 5' end integration junction and no nucleotide changes in coding regions when compared to the expected T-DNA insert. Sequence analysis did not reveal any novel open reading frames (≥ 450 bp, 150 aa) spanning the junctions resulting from the T-DNA insertion.

BLASTn search of both the 5' and 3' flanking border sequences against the soybean scaffold sequence collection, a sequence assembly of soybean genome from William 82, indicated their identity with a segment in soybean chromosome 6 (Genbank Accession: CM000839.1). Additionally, the T-DNA insertion site was characterized by cloning a 7762 bp genomic fragment from the non-transgenic soybean genome containing the identified flanking border sequences in DAS-44406-6 soybean. The sequence analysis revealed a 4383-bp deletion from the parental locus at the integration site in DAS-44406-6 soybean. Further analysis identified an open reading frame within the deleted region. However, BLASTp search of the identified endogenous open reading frame revealed no amino acid similarity to known proteins included in

the GenBank non redundant protein sequences. Overall, the single insertion in soybean event DAS-44406-6 is located in the chromosome 6 of soybean and a 4383 bp fragment was deleted from the parental locus as a result of the T-DNA integration, but no evidence indicates disruption or deletion of endogenous gene or regulatory element at the insertion locus.

ABBREVIATIONS

2mEPSPS	double-mutant 5-enolpyruvylshikimate 3-phosphate synthase
AAD-12	aryloxyalkanoate dioxygenase-12
PAT	phosphinothricin acetyl transferase
bp	base pair
°C	degrees Celcius
CTAB	cetyltrimethyl ammonium bromide
DNA	deoxyribonucleic acid
EDTA	ethylenediaminetetraacetic acid
kb	kilobase
µg	microgram
µL	microliter
mL	milliliter
M	molar mass
ORF	open reading frame
PCR	polymerase chain reaction
PTU	plant transcription unit
SOP	standard operating procedure
TBE	a buffer solution containing a mixture of Tris base, boric acid and EDTA, pH 8.3
V	volts

INTRODUCTION

Soybean (*Glycine max* L.) event DAS-44406-6 was generated by integration of the T-DNA from plasmid pDAB8264 through *Agrobacterium*-mediated transformation. The T-DNA of plasmid pDAB8264 contains three plant transcription units (PTUs): 1) Histone H4A748 promoter, *2mEPSPS* gene, and Histone H4A748 3' UTR, 2) AtUbi10 promoter, *aad-12* gene, and AtuORF23 3' UTR, 3) CsVMV promoter, *pat* gene, and AtuORF1 3' UTR. In addition, a RB7 matrix attachment region (RB7 MAR) is located at the 5' end of the T-DNA insert.

Southern analysis indicated that DAS-44406-6 soybean contained a single insert of the T-DNA containing an intact copy of each of the *2mEPSPS*, *aad-12* and *pat* expression cassettes along with the RB7 element (Poorbaugh, 2011 unpublished). Cloning and sequence analysis of the T-DNA insert and its flanking borders allows for the verification of the DNA sequence and identification of the insertion locus in the soybean genome. The junction regions between the insert and its flanking border sequences can also be utilized for the development of event-specific identification methods to detect the presence of DAS-44406-6 soybean. This report describes the cloning and characterization of the DNA sequence of the T-DNA insert and the associated flanking border regions in DAS-44406-6 soybean, as well as the parental locus from non-transgenic soybean variety Maverick.

MATERIALS AND METHODS

Test Substance

The test substance in this study was DAS-44406-6 soybean. Transgenic soybean seeds for DAS-44406-6 were provided by the Department of TPD (Trait Product Development) in Dow AgroSciences (Table 1).

Control Substance

The negative control substances used in this study was the non-transgenic soybean line, Maverick. The unmodified plant has a genetic background representative of the test substance lines, but does not contain the genes for the 2mEPSPS, AAD-12 or PAT proteins. The conventional soybean seeds were provided by the Department of TPD in Dow AgroSciences (Table 1).

Cloning and Characterization

Genomic DNA sequences of the flanking border regions for DAS-44406-6 soybean and sequences for the estimated parental locus in soybean variety Williams 82 were obtained from the Dow AgroSciences Trait Product Development group (Zhou and Novak, 2011 unpublished).

Reference Substance

The 1 Kb Plus DNA Ladder (Invitrogen) was used as a reference substance to estimate the size of PCR amplified products. The marker contains a mixture of DNA fragments with different sizes to serve as a size reference.

Genomic DNA Extraction and Quantification

Genomic DNA was extracted from freshly ground leaf tissues using a modified CTAB method. Following genomic DNA extraction, DNA samples were dissolved in 1× TE (10mM Tris pH8.0,

1mM EDTA, Thermo Scientific) and quantified with the PicoGreen method according to manufacturer's instructions (Invitrogen). For PCR analysis, DNA samples were diluted with molecular biology grade water (Promega) to result in a concentration of 100 ng/ μ L.

PCR Primers

Primers used for cloning the insert and its flanking border regions in DAS-44406-6 are marked in Figure 2 and their sequences were listed in Table 1 in the Confidential Appendix. The sequence of the estimated parental locus in William 82 was used to design primers as marked in Figure 3 for cloning the parental locus in Maverick and their sequences were listed in Table 2 in the Confidential Appendix. All primers were synthesized by Integrated DNA Technologies, Inc (Coralville, IA) and were dissolved in 1 \times TE (Thermo Scientific) to a concentration of 100 μ M as the stock solution.

Conventional PCR

Standard PCR was used to clone the insert and border sequences of DAS-44406-6 soybean as well as the insertion site in the host genome. The *TaKaRa EX Taq* PCR Kit (TaKaRa Bio Inc.) was used for conventional PCR amplification according to the manufacturer's recommended procedures. Specific PCR conditions and amplicon descriptions for DAS-44406-6 and for Maverick are listed in Table 2 and Table 3 respectively.

PCR Product Detection and Purification

PCR products were inspected by electrophoresis with a 1% agarose gel. Fragment size was estimated by comparison with the DNA markers. All PCR fragments were purified using the QIAquick Gel Extraction Kit following the manufacturer's instructions (Qiagen).

Sub-cloning of PCR Products

PCR fragments were sub-cloned into the pCR4-TOPO[®] vector using TOPO TA Cloning[®] Kit for Sequencing (Invitrogen) according to the product instructions. Specifically, two micro liters of the TOPO[®] cloning reaction was transformed to ElectroMax DH10B electrocompetent cells (Invitrogen) following manufacturer's instruction. Plasmid DNA of cloned fragments were prepared using the QIAprep Spin Miniprep Kit (Qiagen) followed by verification using restriction digestion with *EcoR I* or PCR (New England Biolabs). PCR fragments cloned for sequencing of the DAS-44406-6 soybean (Figure 4), as well as insertion site in host genome (Figure 5).

DNA Sequencing

After verification, selected colonies were sequenced initially to confirm that the expected DNA fragments had been cloned. The confirmed colonies were then selected for complete double-strand full length sequencing by primer walking. All sequencing was performed by Beckman Agencourt (Danvers, MA) with a minimum score of Phred 40.

DNA Sequencing Analysis

Final assembly of insert and border sequences was done using Sequencher[®] software (Gene Codes Corporation). Annotation of the insert and its flanking border sequences of DAS-44406-6 soybean were done with Vector NTI (Version 11, Invitrogen).

Homology search was performed in-house using the BLASTn program against the soybean scaffold sequence collection, a sequence assembly of soybean genome from William 82 (Schmutz *et al.*, 2010). Open reading frame (ORF) analysis using Vector NTI was performed to identify ORFs (≥ 450 bp, 150 aa) spanning the junctions between the insert and its flanking borders. All the BLAST search output results are included as electronic Appendix supplemental to the report. These files are electronically stored in a secured computer in Dow AgroSciences and are available for view in PDF format.

RESULTS AND DISCUSSION

T-DNA Insert and Flanking Border Sequences

The 5' and 3' flanking border sequences obtained from TPD and the expected T-DNA sequences from plasmid pDAB8264 were used to design the PCR primers listed in Table 2 and Confidential Appendix Table 1. Using these primers and conventional PCR, the entire T-DNA insert and over 1kb each of the flanking border regions were cloned from DAS-44406-6 soybean. In total, eight overlapping DNA fragments (Amplicons 1 to 8) were cloned and sequenced (Figure 2). The whole insert and flanking border sequences were assembled based on the overlapping sequences among the eight fragments, resulted in a total of 13659 bp of DAS-44406-6 soybean sequences. The cloned sequences are comprised of 1494 bp of 5' flanking border sequence, 1885 bp of 3' flanking border sequence, and 10280 bp of T-DNA insert (Figure 6 and Confidential Appendix Figure 1).

Sequence analysis of the whole insert and its flanking borders revealed a 3-bp insertion at the 5' integration junction of the T-DNA insert in DAS-44406-6 soybean (Confidential Appendix Figure 3). Sequence comparison between the insert and its counterpart in pDAB8264 confirmed that the T-DNA integrated in DAS-44406-6 soybean, including the three intact PTUs, is identical to the ones in plasmid pDAB8264. Sequence analysis did not reveal any novel open reading frames (≥ 450 bp, 150 aa) spanning the junctions resulting from the T-DNA insertion (Figure 6A).

A BLASTn search of both the 5' and 3' border sequences indicated a 99% identity with a segment of Chromosome 6 in a soybean scaffold sequence collection, a sequence assembly of soybean genome from William 82 (Genbank Accession: CM000839.1). However, no coding sequence and regulatory elements are defined in this segment according to current annotations of this accession.

Confirmation of the Parental Soybean Genomic Sequences

Based on the preliminary BLASTn search of the flanking borders of DAS-44406-6 against the soybean genome sequence of William 82, there is likely a deletion from the Maverick genome in DAS-44406-6 soybean. Confirmation of the insertion site in the soybean genome was obtained by PCR amplification of flanking border sequences and the parental locus in the unmodified soybean Maverick. Five overlapping DNA fragments (Amplicons 1 to 5) were cloned and sequenced (Figure 5), representing 7765 bp of Maverick genomic sequence. A BLASTn search of the parental locus sequence against the soybean sequence database used in the analysis of border sequences revealed a 99% identity to the same segment of Chromosome 6 (Genebank Accession: CM000839.1) as identified in the flanking border sequences. Sequence alignment of the parental locus in Maverick with the full sequence of the insert and its flanking borders described above confirmed deletion of a 4383 bp fragment from the parental locus at the insertion site in DAS-44406-6 due to T-DNA integration (Figure 6B and Confidential Appendix Figure 3).

An open reading frame of 777 bp (≥ 450 bp, 150 aa) was identified within the 4383 bp deleted segment (Figure 6B). However, further BLASTp search of this ORF against the GenBank non-redundant protein sequences have not identified any sequence similarity to known proteins.

CONCLUSIONS

In conclusion, 13659 bp of insert and flanking border sequences in DAS-44406-6 soybean and 7762 bp of parental locus in Maverick were cloned and sequenced (Confidential Appendix Figure 1 and Figure 2). The resulting sequence revealed a three base pair insertion at the 5' integration junction in DAS-44406-6 soybean event. The insert contains a single intact copy of the T-DNA identical to the counterpart from pDAB8264. PCR analysis combined with BLASTn searches confirmed that the cloned 5' and 3' flanking border sequences were indeed from the soybean genome and that a 4383 bp deletion at the insertion locus occurred as a result of the T-DNA integration. According to currently available sequence information, no indication of endogenous gene or regulatory element disruption or deletion is present at the integration locus.

ARCHIVING

The protocol for genomic DNA extraction, raw data and the original version of the final report will be filed in the Dow AgroSciences LLC archives at 9330 Zionsville Road in Indianapolis, IN 46268-1054.

STATISTICAL TREATMENT OF DATA

No statistical methods are used in this study.

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1. Poorbaugh, J., 2011. Molecular Characterization of DAS-44406-6 soybean. Dow AgroSciences unpublished report 101947.
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Table 1 Test substances and control substances used in the study

Soybean Genomic DNA	Description	Source ID
DAS-44406-6	Transgenic Soybean (T6)	YT10ET450586.0005.005
Maverick	Unmodified Soybean	YW10EW000012.0001

Table 2 Primer description for PCR amplicons from DAS-44406-6 soybean

Amplicon	Target Sequence	Expected Size (bp)	Primer Set
Amplicon 1	5' Genomic DNA / DNA Insert	1727	4406-F1-F / 4406-F1-R
Amplicon 2	DNA Insert	2049	4406-F2-F / 4406-F2-R
Amplicon 3	DNA Insert	2359	4406-F3-F / 4406-F3-R
Amplicon 4	DNA Insert	2188	4406-F4-F / 4406-F4-R
Amplicon 5	DNA Insert	2253	4406-F5-F / 4406-F5-R
Amplicon 6	DNA Insert	2240	4406-F6-F / 4406-F6-R
Amplicon 7	DNA Insert / 3' Genomic DNA	2336	4406-F7-F / 4406-F7-R
Amplicon 8	3' Genomic DNA	2426	4406-F8-F / 4406-F8-R

¹Each PCR reaction was conducted using 100 ng of DAS-44406-6 genomic DNA template in 50 µL total volume with 2 µL of each primer (10µM), 5 µL dNTPs (2.5mM each), 5 µL EX Taq Buffer, 10x conc. with MgCl₂, 34.25 µL water and 0.75 µL EX Taq Enzyme Mix. PCR reaction conditions were as follows: Initial denaturation – 2 minutes at 95°C; 35 cycles at 95°C – 1 minute, 56°C – 1 minute, 72°C – 2.5 minutes; final elongation – 7 minutes at 72°C; hold 4°C. For Amplicon 1 extension time at 72°C -2 minutes. Bands were then resolved on a 1% agarose gel in order to determine if the appropriate band was amplified.

Table 3 Primer description for PCR amplicons from Maverick soybean

Amplicon	Target Sequence	Expected Size (bp)	Primer Set
5' Border Genomic DNA / DNA			
Amplicon 1	Insertion site	2658	M-F1-F / M-F1-R
Amplicon 2	DNA Insertion Site	340	M-F2-F / M-F2-R
Amplicon 3	DNA Insertion Site	519	M-F3-F / M-F3-R
Amplicon 4	DNA Insertion Site	3139	M-F4-F / M-F4-R
Amplicon 5	3' Border Genomic DNA	1812	M-F5-F / M-F5-R

¹Each PCR reaction was conducted using 100 ng of Maverick genomic DNA template in 50 µL total volume with 2 µL of each primer (10µM), 5 µL dNTPs (2.5mM each), 5 µL EX Taq Buffer, 10x conc. with MgCl₂, 34.25 µL water and 0.75 µL EX Taq Enzyme Mix. PCR reaction conditions were as follows: Initial denaturation – 2 minutes at 95°C; 35 cycles at 95°C – 1 minute, 56°C – 1 minute, 72°C – Amplicon specific*; final elongation – 7 minutes at 72°C; hold 4°C. Bands were then resolved on a 1% agarose gel in order to determine if the appropriate band was amplified.

* For Amplicon 1 and 4 extension time at 72°C -3 minutes. Amplicon 2 and 3 extension time at 72°C -30sec, Amplicon 5 extension time at 72°C -2 minutes.

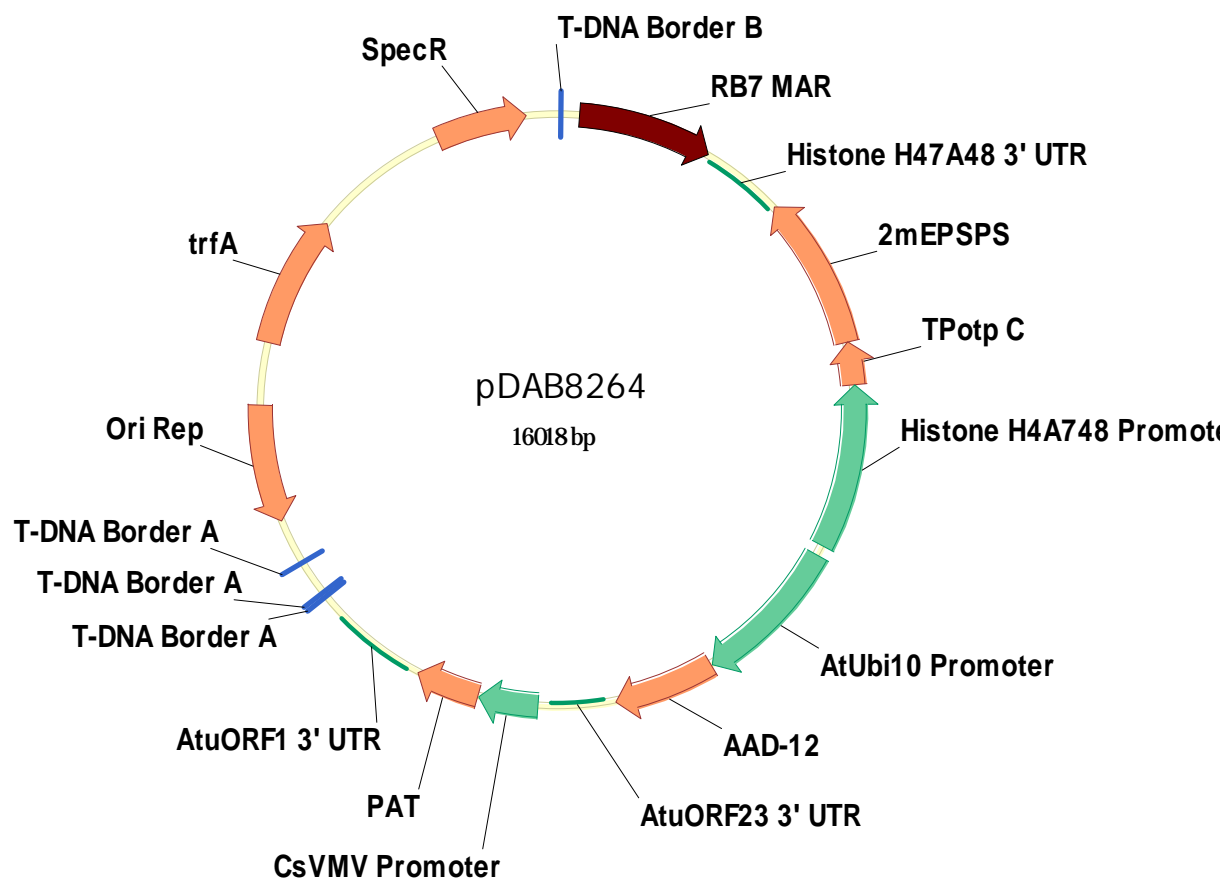
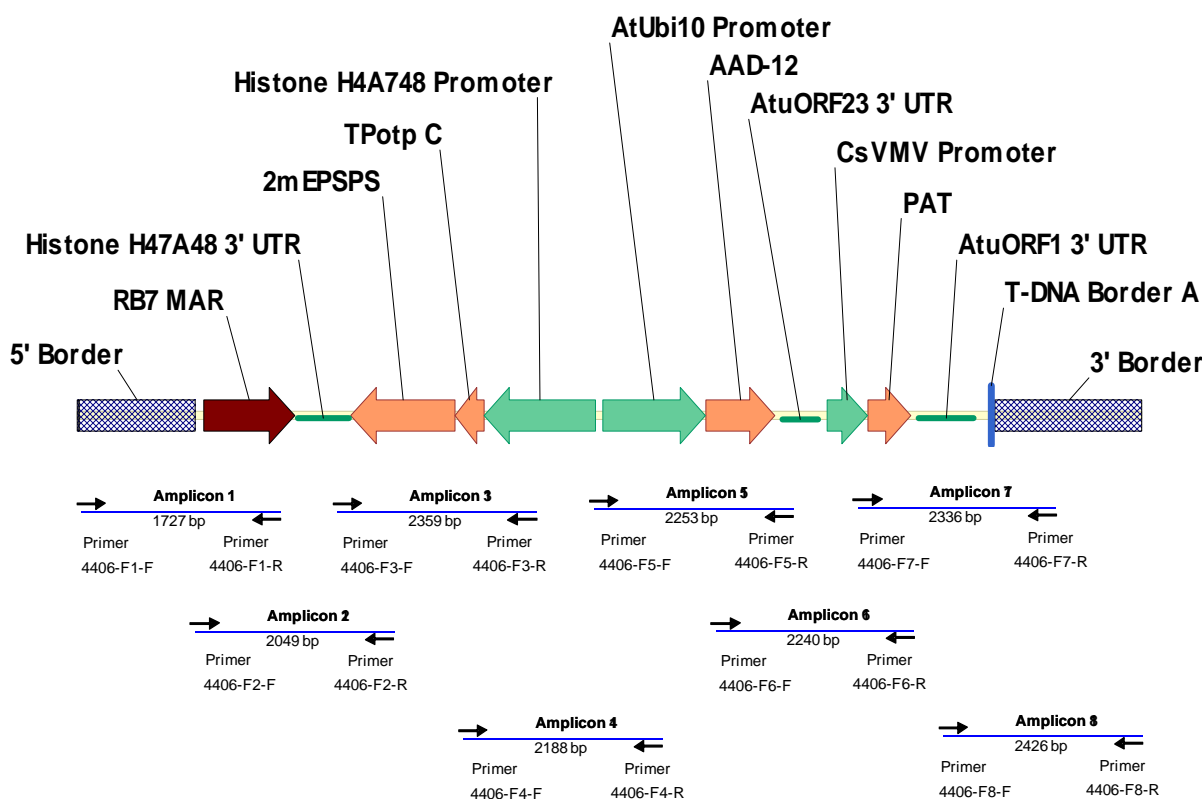
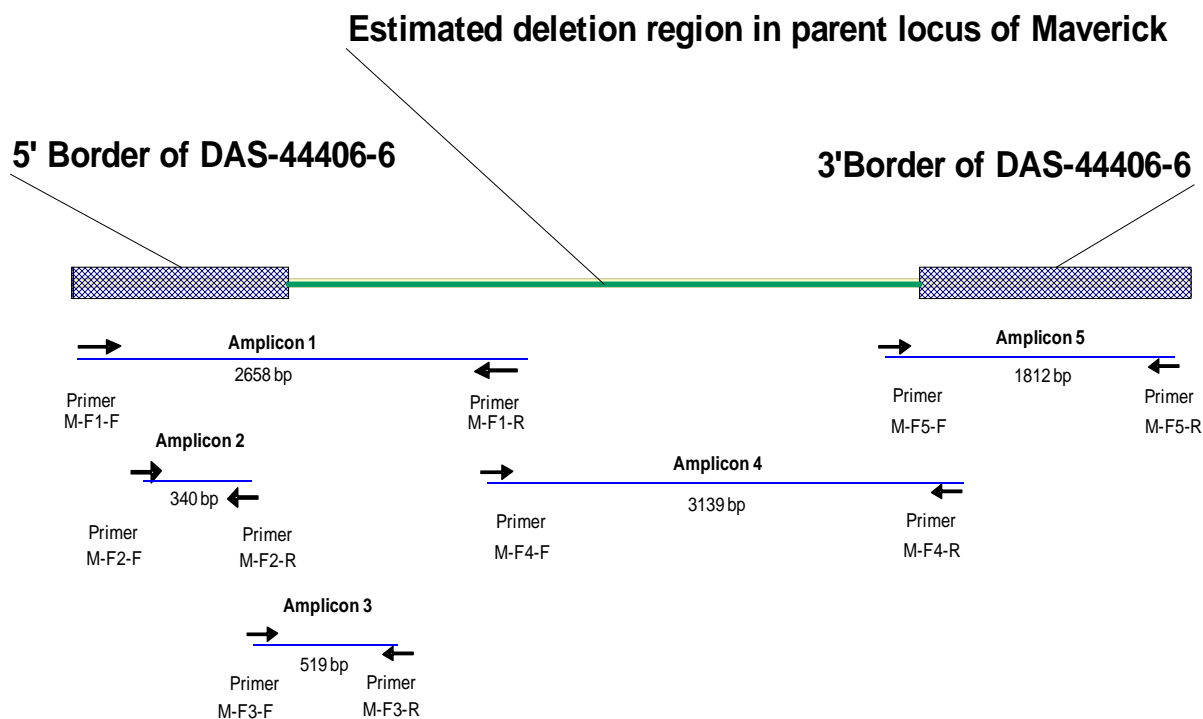


Figure 1 Plasmid map of pDAB8264 containing the 2mEPSPS, AAD-12 and PAT expression cassettes



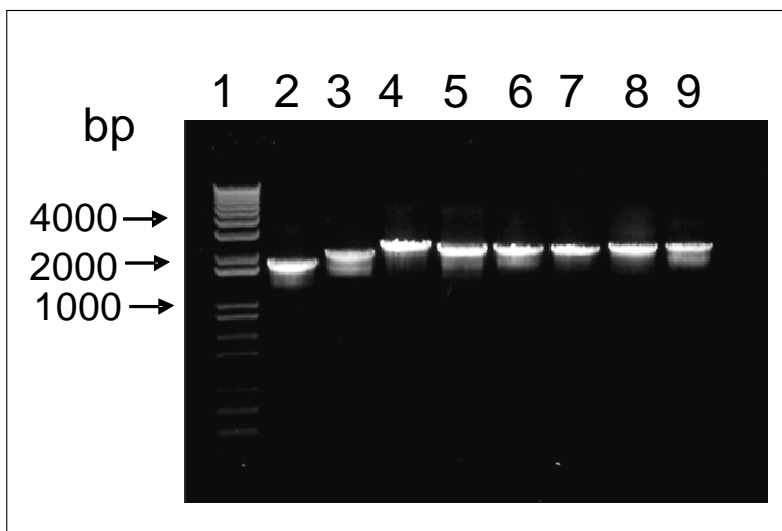
The schematic diagram depicts the primer locations and cloning strategy for full length sequencing of the DAS-44406-6 soybean from 5' to 3' borders. The cloning and sequencing resulted in 1494 bp of 5' flanking border sequence, 1885 bp of 3' flanking border sequence, and 10280 bp of T-DNA insert.

Figure 2 Schematic of cloning the flanking border sequences from the insert in DAS-44406-6 soybean



The schematic diagram depicts the primer locations and cloning strategy for the corresponding parental locus of the DAS-44406-6 insert in Maverick. The cloning and sequencing resulted in 1494 bp of 5' flanking border sequence, 1885 bp of 3' flanking border sequence, and 4383 bp of the estimated deleted region by T-DNA insert.

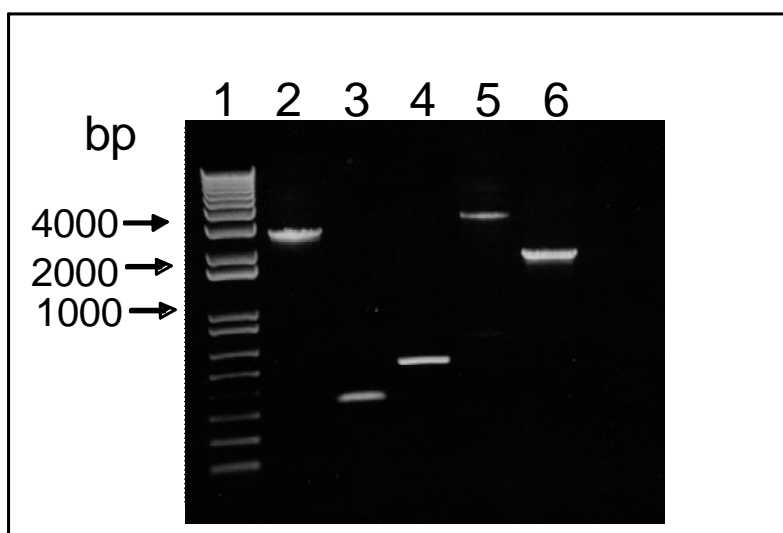
Figure 3 Schematic of cloning the flanking border sequences from the parental locus in Maverick soybean



Lane	Fragment	Expected Size (bp)	Observed Size (bp)
1	1 KB Marker	n/a	n/a
2	Amplicon 1	1727	~1700
3	Amplicon 2	2042	~2000
4	Amplicon 3	2359	~2400
5	Amplicon 4	2188	~2200
6	Amplicon 5	2253	~2300
7	Amplicon 6	2240	~2200
8	Amplicon 7	2336	~2300
9	Amplicon 8	2426	~2400

PCR amplification of the six individual fragments cloned to determine the DNA sequence and insertion site for DAS-44406-6 soybean. All fragments amplified the expected size as seen on the 1% agarose gel.

Figure 4 PCR amplification of the fragments used to determine the T-DNA insert and insertion site for DAS-44406-6 soybean



Lane	Fragment	Expected Size (bp)	Observed Size (bp)
1	1 KB Marker	n/a	n/a
2	Amplicon 1	2658	~2700
3	Amplicon 2	340	~300
4	Amplicon 3	519	~500
5	Amplicon 4	3139	~3100
6	Amplicon 5	1812	~1800

PCR amplification of the six individual fragments cloned to determine the DNA sequence and insertion site of parental locus in Maverick. All fragments amplified the expected size as seen on the 1% agarose gel.

Figure 5 PCR amplification of the fragments used to determine the DNA sequence and insertion site for Maverick soybean

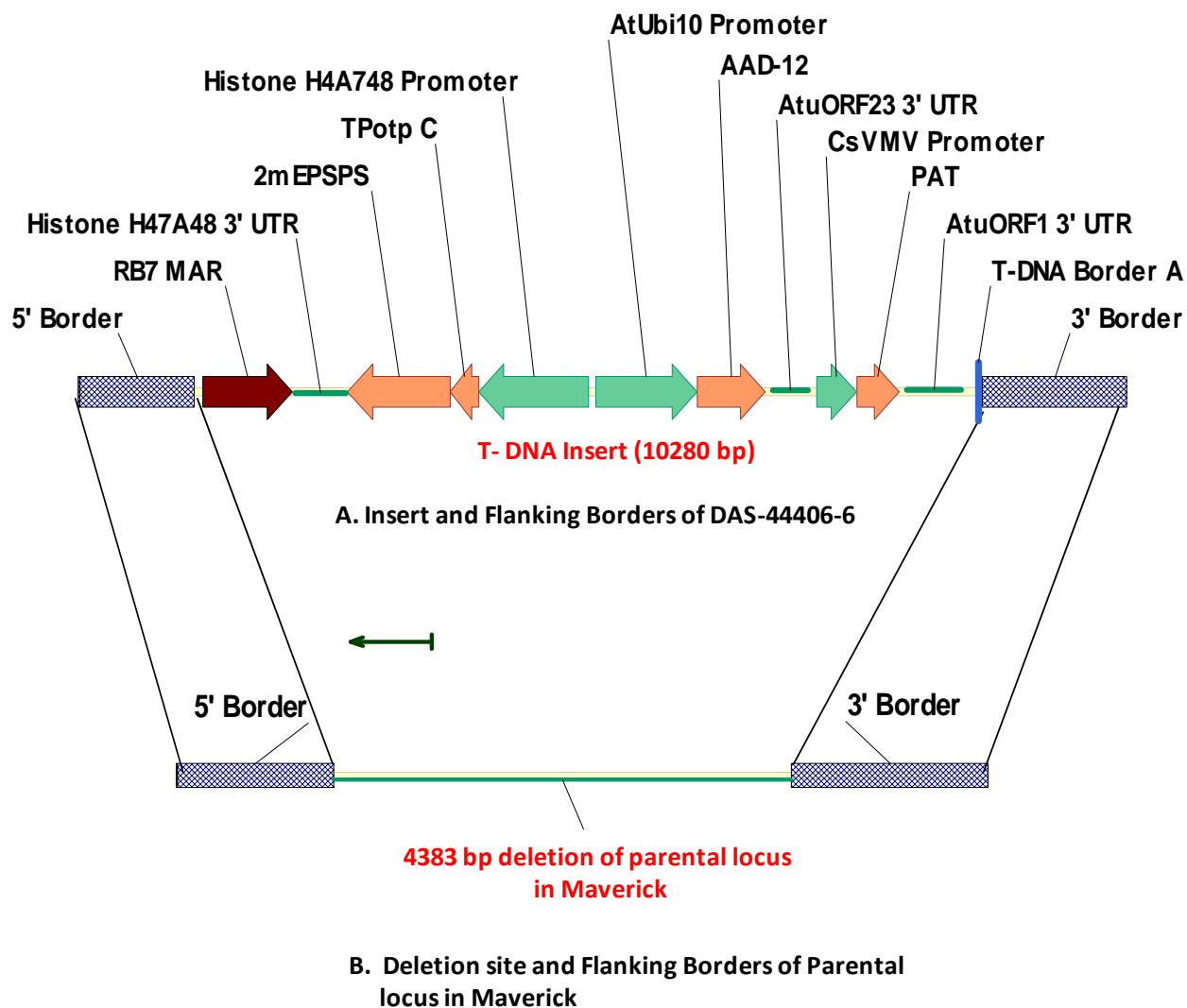


Figure 6 Characterization of Insert and its Flanking Regions of DAS-44406-6 soybean.
A. Insert and Flanking Borders of DAS-44406-6 soybean.
B. Deletion site and Flanking Borders of Parental locus in Maverick
Green arrow indicates ORF.

CONFIDENTIAL ATTACHMENT

STUDY TITLE

Cloning and Characterization of the DNA Sequence for the Insert and Its Flanking Border
Regions of DAS-44406-6 Soybean

DATA REQUIREMENTS

Not Applicable

AUTHOR(S)

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STUDY COMPLETED ON

PERFORMING LABORATORY

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LABORATORY STUDY ID

102117

CONFIDENTIAL APPENDIX

Table 1. List of primers and their sequences used in the cloning of the insert and border sequences in DAS-44406-6 soybean

Primer Name	Size (bp)	Strand	Sequence	Purpose
4406-F1-F	23	Sense	CCGCTGAAGAAGATCA AGTGTGT	Amplification of the 5' border and insert, Amplicon 1 with 4406-F1- R
4406-F1-R	24	Antisense	ATATTACATGCCAGAA GAGTCGCA	Amplification of the 5' border and insert, Amplicon 1, with 4406-F1-F
4406-F2-F	22	Sense	TTGAACCACCCATGATT AAGCC	Amplification of the insert, Amplicon 2, with 4406-F2-R
4406-F2-R	23	Antisense	TTCACGATGGATGAGG ATAACGA	Amplification of the insert, Amplicon 2, with 4406-F2-F
4406-F3-F	25	Sense	TTACAGCAAAGCCAGA ATACAATGA	Amplification of the insert, Amplicon 3, with 4406-F3-R
4406-F3-R	18	Antisense	CAAGTCCACCGCCAGC CT	Amplification of the insert, Amplicon 3, with 4406-F3-F
4406-F4-F	20	Sense	CAGCTTGACCTTGCCAC CAG	Amplification of the insert, Amplicon 4, with 4406-F4-R
4406-F4-R	24	Antisense	GTAATGAAACCACCAC TCAACGAA	Amplification of the insert, Amplicon 4, with 4406-F4-F
4406-F5-F	22	Sense	ATTGCGCCATCACATTA TTTGA	Amplification of the insert, Amplicon 5, with 4406-F5-R
4406-F5-R	20	Antisense	TGCCATCTGCCTTGACA TTG	Amplification of the insert, Amplicon 5, with 4406-F5-F
4406-F6-F	21	Sense	TCGTTCGATCCCAATTT CGTA	Amplification of the insert, Amplicon 6, with 4406-F6-R
4406-F6-R	21	Antisense	TTCACAAATGCCGAAC TTGGT	Amplification of the insert, Amplicon 6, with 4406-F6-F
4406-F7-F	21	Sense	GCCGACCCAGCTTTCTT GTAC	Amplification of the insert, Amplicon 7, with 4406-F7-R
4406-F7-R	21	Antisense	TTACATCACAACTCGG CGACC	Amplification of the insert, Amplicon 7, with 4406-F7-F
4406-F8-F	16	Sense	TGTGCTTGCGGTCGCC	Amplification of the 3' border and insert, Amplicon 8, with 4406-F8-R
4406-F8-R	22	Antisense	TGTCCCGTATCATTTGT TGGTG	Amplification of the 3' border and insert, Amplicon 8, with 4406-F8-R

Table 2. List of primers and their sequences used in the cloning of the border sequences and parental locus in Maverick

Primer Name	Size (bp)	Strand	Sequence	Purpose
M-F1-F	23	Sense	CCGCTGAAGAAGATCA AGTGTGT	Amplification of the 5' border and insert, Amplicon 1 with M-F1-R
M-F1-R	24	Antisense	CAATAACACACATTTCG CCCTTCTA	Amplification of the 5' border and insert, Amplicon 1, with M-F1-F
M-F2-F	24	Sense	AACAACAACGCCTTAT CCCCTAG	Amplification of the insert, Amplicon 2, with M-F2-R
M-F2-R	24	Antisense	GGTGGATGTGTGGTAA GACTCGAC	Amplification of the insert, Amplicon 2, with M-F2-F
M-F3-F	24	Sense	GTCGAGTCTTACCACA CATCCACC	Amplification of the insert, Amplicon 3, with M-F3-R
M-F3-R	26	Antisense	TTTCAAATCAATTTCAA GAGATAGCG	Amplification of the insert, Amplicon 3, with M-F3-F
M-F4-F	24	Sense	TATGAAAGAGGAAGGA GAGGGAAA	Amplification of the insert, Amplicon 4, with M-F4-R
M-F4-R	25	Antisense	TCCAAGGAAACCAATT TCTAAATGT	Amplification of the insert, Amplicon 4, with M-F4-F
M-F5-F	21	Sense	GGTCGCCGAGTTGTGA TGTA	Amplification of the 3' border, Amplicon 5, with M-F5-R
M-F5-R	22	Antisense	TGTCCCGTATCATTTGT TGGTG	Amplification of the 3' border, Amplicon 5, with M-F5-F

Figure 1. Sequence of the 5' flanking border region through the T-DNA insert and into the 3' flanking border region for DAS-44406-6 soybean (border genome sequences are under lined; 3 bp insertion is in bold at position 1495-1498 bp)

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1   CCGCTGAAGA AGATCAAGTG TGTGAACCAA AGTGAAAATA ATGTTTAGAA
51  GCCAACACAG TGGACAATTT TGATTTCTGG TTAATGGGTG TATTAAAAAT
101 ATCAGAAAAC TTTCAAATAT CTCGAGCAGG CAGTTGGGTT GCCTAATCCA
151 TCACTTGATC TCAAAGATTC TTGTTGTCAA GCTTCGATGA GTAGCGAAAC
201 CTACCGTGTG GGCTCTAAGC TTTAGGTTGC CATTGACGAT CTTGACACGA
251 CATATGACCT ATGATAGCAA TTCAAACATG GTTCATATCA GCTGAGTTGC
301 AGACTTAGCT GCTAGCATTT CACGTTGTGA ATGCAAGAGG AAAAATACAT
351 AGAAAAAGAG GGAACAAAAT TGTTAACCTT CCATATGTAC AGGTTTTAGC
401 CTCAATTTTA CCCATTGATT GATTTATTAT TGAAAAGTAA TCACTTATCA
451 GAACCAGAGT TTGTAATTCA GCTTGTATCG TACCATCTAA TATCTTAGTC
501 AAATTTGTGT ATAATAAGTA TTAAATGTG AGTCTCTTTT ATTTAATTAG
551 TTTAAATAAT TGGAATACAA TTGGCAAATG GGCACCTCAA CTATAATTAG
601 TGAATTGATT TAGTTGACTG TTATGAAGTA TTTTACTTAA GTTAGTAATA
651 GTAGAGTGAT GTTTGATGAA TTAAACTTAA GATTGGTTGA AGTTATTGAT
701 CTCACTGGAT CCATAGTTTG GTCTGTGGGA TTGCATCTGA AACGGATCAT
751 ATGGTTTTGT TTTGTGACTG AATTGTGGCA ATGTAACACC TGGACTTTTT
801 CACAAC TATT GTATAAATCC AGTATATCTC ACGTGAATCT GAAATTAGTA
851 GCATGCTTAA CATATAAGTA TCGATTTATC TAATCAGTTT CCATATTTAT
901 GAAAACTGCA CTGTTGAAAA TTGTGCAAGC TTAACATACA AGTAATGTAA
951 TCCACAGTAC GAAAAATGTG CAGGTTCTTA TTTGTGCTCC ATAATTGTTT
1001 CTTGATTCCG ATCAAAGCAA GAGCATCCAG TCTCAA AATT TTGTCTTCTC
1051 AATTCAC TCA TTCATCAAAA TCAGCAGTTT TATGCATCAA CAAGCATGGA
1101 ATGTTGAACC ACCCATGATT AAGCCCCATA TCGTTGTGTT GAGATAACTA
1151 TCACCTGAAG TTGTCTTATA AAAAACACAT CTGAATACTT TTATAATCAT
1201 ACCTTTCTCG GCCTTTTGGC TAAGATCAAG TGTAGTATCT GTTCTTATCA
1251 GTTTAATATC TGATATGTGG GTCATTGGCC CACATGATAT TAAATTTATT
1301 TTTTGAAGGG TGGGGCCTGA CATAGTAGCT TGCTACTGGG GGTTCCTAAG
1351 CGTAGCCTGT GTCTTGCACT ACTGCATGGG CCTGGCGCAC CCTACGATTC
1401 AGTGTATATT TATGTGTGAT AATGTCATGG GTTTTTATTG TTCTTGTTGT
1451 TTCCTCTTTA GGAAC T TACA TGTAACGGT AAGGTCATCA TGGAGGTCCG
1501 AATAGTTTGA AATTAGAAAG CTCGCAATTG AGGTCTACAG GCCAAATTCC
1551 CTCTTAGCCG TACAATATTA CTCACCGGAT CCTAACCGGT GTGATCATGG
1601 GCCGCGATTA AAAATCTCAA TTATATTTGG TCTAATTTAG TTTGGTATTG
1651 AGTAAAACAA ATTCGAACCA AACCAAAATA TAAATATATA GTTTTTATAT
1701 ATATGCCTTT AAGACTTTTT ATAGAATTTT CTTTAAAAAA TATCTAGAAA
1751 TATTTGCGAC TCTTCTGGCA TGTAATATTT CGTTAAATAT GAAGTGCTCC
1801 ATTTTTATTA ACTTTAAATA ATTGGTTGTA CGATCACTTT CTTATCAAGT
1851 GTTACTAAAA TGCGTCAATC TCTTTGTTCT TCCATATTCA TATGTCAAAA
1901 CCTATCAAAA TTCTTATATA TCTTTTTCGA ATTTGAAGTG AAATTTTCGAT
1951 AATTTAA AAT TAAATAGAAC ATATCATTAT TTAGGTATCA TATTGATTTT
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2051 AATTAGTCAA ACGACTAAAA TAAATAAATA TCATGTGTTA TTAAGAAAAT

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2101	TCTCCTATAA	GAATATTTTA	ATAGATCATA	TGTTTGTAAA	AAAAATTAAT
2151	TTTTACTAAC	ACATATATTT	ACTTATCAAA	AATTTGACAA	AGTAAGATTA
2201	AAATAATATT	CATCTAACAA	AAAAAAAACC	AGAAAATGCT	GAAAACCCGG
2251	CAAAACCGAA	CCAATCCAAA	CCGATATAGT	TGGTTTGGTT	TGATTTTGAT
2301	ATAAACCGAA	CCAACTCGGT	CCATTTGCAC	CCCTAATCAT	AATAGCTTTA
2351	ATATTTCAAG	ATATTATTAA	GTTAACGTTG	TCAATATCCT	GGAAATTTTG
2401	CAAAATGAAT	CAAGCCTATA	TGGCTGTAAT	ATGAATTTAA	AAGCAGCTCG
2451	ATGTGGTGGT	AATATGTAAT	TTACTTGATT	CTAAAAAAT	ATCCCAAGTA
2501	TTAATAATTT	CTGCTAGGAA	GAAGGTTAGC	TACGATTTAC	AGCAAAGCCA
2551	GAATACAATG	AACCATAAAG	TGATTGAAGC	TCGAAATATA	CGAAGGAACA
2601	AATATTTTTTA	AAAAAATACG	CAATGACTTG	GAACAAAAGA	AAGTGATATA
2651	TTTTTTGTTC	TTAAACAAGC	ATCCCCTCTA	AAGAATGGCA	GTTTTCTTTT
2701	GCATGTAAC	ATTATGCTCC	CTTCGTTACA	AAAATTTTGG	ACTACTATTG
2751	GGAACCTCTT	CTGAAAATAG	TGGCCACCGC	TTAATTAAGG	CGCGCCGACG
2801	AATGTCCCCG	ATCAAATCTG	AGGGACGTTA	AAGCGATGAT	AAATTGGAAC
2851	CAGAATATAG	AATCTTTGTT	CTGCTCTAGC	TTTTCTTCTG	TACATTTTTT
2901	ACGATTAGAC	TATGATTTTC	ATTCAATAAC	CAAAATTCTG	AAGTTTGTCA
2951	TCAAGTTGCT	CAATCAAAC	TGTACCGGTT	TGTTTCGGTT	TTATATCAGC
3001	TCACTGTTAC	ACTTTAACCA	AAATCGGTTT	ATGTCTTAAT	AAAGGAATTG
3051	AGTCGGTTTA	ACTCATATCC	GTACCAATGC	GACGTCGTGT	CCGCGTTTCA
3101	GTAGCTTTGC	TCATTGTCTT	CTACGGGAAC	TTTCCCGGAC	ATAGGAACCG
3151	CCCTTTCGTT	ATCCTCATCC	ATCGTGAAAT	CAGGAAATAA	ATGTTCTGAAG
3201	ATTTGAGGTC	AAAAGTCGAA	TTTCATGTTG	TCTCTTCTAT	TTAGATACAA
3251	AATTGAAGCA	ATTTTCACCA	ATTTAATGCC	AAAATTTAAA	ACAACGCTGA
3301	TAAAGTGAAA	CTTGATTCTGA	TTTATATTTT	AACCGAAACT	GCTGAAGCAA
3351	GAAGAAAAAG	CGTAATTACA	CATAACAAGA	ACGCTACCGC	AACTACTAA
3401	ACGCCAAACC	CAATACAAAA	GTAAAACGCA	GACGCTTAAG	TGAGAAACCC
3451	AGAAAACACA	AACGCGGATC	GGGGGATCCA	CTAGTTCTAG	AGCTTAATTC
3501	TTGACGAAAG	TGCTCAGCAC	ATCGAAGTAG	TCGGGGAAGG	TCTTCCGGGT
3551	GCACCCAGGG	TCCCGGATGG	TGACGGGGAC	CTCGGCACAG	GCGGCAAGGG
3601	AGAAAGCCAT	CGCCATCCTG	TGGTCGTCGT	ACGTGTCGAT	CGCCGTCACG
3651	TTCAGCTTCT	CCGGCGGCGT	GATGATGCAG	TAGTCCGGCC	CTTCTCAAC
3701	AGATGCTCCC	AGCTTGGTTA	GCTCCGTCCG	GATCGCAACC	ATCCTCTCGG
3751	TCTCCTTTAC	TCTCCAGGAA	GCCACGTCTC	TGATGGCTGT	CGGGCCATCG
3801	GCAAAGAGGG	CAACCACAGC	AAGAGTCATG	GCGACATCAG	GCATCTTGTT
3851	CATGTTGACA	TCAATCGCCT	TGAGGTGTTT	CCTCCCAAAT	GGCTCCCGCG
3901	GTGGGCCAGT	AACAGTTACG	CTAGTCTCGG	TCCATGTAAC	CTTCGCTCCC
3951	ATCATCTCCA	GTACCTCAGC	AAACTTCACA	TCACCCTGCA	AACTGGTGGT
4001	GCCACAACCT	TCCACAGTCA	CAGTCCCTCC	AGTAATTGCA	GCACCAGCCA
4051	AGAAATAGCT	TGCGCTTGAG	GCATCACCTT	CAACATAGGC	ATTTTTAGGG
4101	GACTTGATTT	TTTGACCTCC	CTTAATGTAG	AATCTGTCCC	AGCTATCAGA
4151	ATGCTCTGCT	TTACACCAA	AACGCTCCAT	CAATCTCAAT	GTCAATTCGA
4201	CGTACGGAAT	GGAGATTAAT	TTATCAATGA	TTTCAATCTC	CACATCCCCA
4251	AGAGCCAAAG	GAGCAGCCAT	CAGCAAGGCA	CTCAAGTACT	GACTGCTGAT
4301	GGAGCCAGAC	AGCTTGACCT	TGCCACCAGG	TAGCCCTCCG	ATTCCATTGA
4351	CACGAACAGG	TGGGCAGTCA	GTGCCAAGGA	AACAATCAAC	ATCTGCACCA
4401	AGCTGCTTCA	ATCCGACAAC	CAAGTCGCCA	ATGGGTCTCT	CCCTCATTCT
4451	TGGTACTCCA	TCAAGCACGT	AAGTTGCATT	TCCACCAGCA	GCAGTAACAG
4501	CTGCTGTCAA	GGACCGCATT	GCGATTCCAG	CATTCCCCAA	GAAGAGCTGC
4551	ACTTCTCTTT	TAGCATCCTC	AACTGGGAAC	TTTCCACCAC	AGCCAACAAC

4601	TACAGCTCTT	TTGGCAGCTT	TGTCCGCTTC	GACAGAGAGA	CCAAGAGTCC
4651	TCAAGGCCCC	GAGCATGTAG	TGGACATCCT	CACTGTTCAG	CAGGTTATCA
4701	ACCACTGTTG	TCCCCTCGGA	CAGGGCGGCG	AGTAGGAGGA	TCCGGTTGGA
4751	AAGCGACTTG	GACCCCGGCA	GCTTGACGGT	GCCGGAGATC	TCCTTGATGG
4801	GCTGCAGCAC	GATCTCCTCG	GCGCCGGCCA	TGCACCGGAT	CCTTCCGCCG
4851	TTGCTGACGT	TGCCGAGGCT	TCTGGAGGAG	CGGCGGGCGA	CGGGGAGGCT
4901	GGCGGTGGAC	TTGAGCCCCCT	GGAACGGAGC	GACGGCGGTG	GCCGACGAGG
4951	CCATCATCAC	GGTGGGCGCC	ATAGACAGCG	GCGGCAGGTA	CGACAGCGTC
5001	TCGAACTTCT	TGTTGCCGTA	GGCCGGCCAC	ACCTGCATAC	ATTGAACTCT
5051	TCCACCGTTG	CTGGGAAGGG	TGGAGAAGTC	GTTAGCCTTC	TTGGTGGTGG
5101	GGAAGGCGGC	GTTGGACTTA	AGGCCGGTGA	ACGGAGCCAC	CATGTTGGCC
5151	TGAGCAGGGG	CGGTCCGGCT	AACGGTCGCG	ACTGAGGAGG	AGATCGAAGC
5201	CATGGGGATC	TGCGCATTTA	ACAAGAAATT	GAACAGTCAA	TTGGGGATTT
5251	TCATTATCCA	TAATAAAATT	TTGAAGAAAT	TGGAATACTA	AACGTCACCA
5301	CTTAAAACCC	TAATCCAGAT	GAATCGTTAT	CGAACCAGAT	ATAACCAAAA
5351	GGGGCAAAAT	TGACTCGAAA	ACCCTAGTTC	TCGATACACG	GCTAGGTAAT
5401	GACAATCGCA	CACAGACAAA	TCTGGTTATA	CAGAACTTCG	AAGCAAGAAA
5451	AAAACGATGA	AGAATGGATC	ATCCAATAAA	TCGACTAGAC	TCAATCTTCA
5501	CAGGTTTATC	GATCCAGCAA	ACTTAAAAGA	CGGACCTTTA	TTTTCAAACCT
5551	GGAATGGGAC	AAAACCCGAA	ACTCTATTGT	CGTAAAATCA	GATCGCGGAG
5601	ACAGTAACAG	AAAAAACATT	AAAAAGTAAT	GGAAAGACCT	AAACCCCTGA
5651	TCTAATTACA	AACAAATCAT	ACCTGTTCTT	CGCCTGAGGG	GTTTCGAAATC
5701	GATAAGCTTG	GATCCTCTAG	AGTCGAGAGA	AATTGATGTC	TGTAGAAGAA
5751	GAAGAACGGT	TAAGAGTAGA	TTTGGGTGAG	AAAGATGTGA	AATTGTTTTT
5801	ATAGGCAAAG	ACGGAGAGTC	TATTTTTTTGA	GCAATCAGAT	CGCATATTAA
5851	ATCTAACGGC	TGAGATATCG	ATCCGTGTGT	ACAATAAAAT	GATGTATAAA
5901	CCGTCGATCT	GTTTTAATCG	ACGGTTCATA	TTAGTGATCC	GCGTGATGGC
5951	AGTGATAGCC	ACTAAGAATC	GTCTTTTGTG	TTACATGTGG	CGCCACAAAT
6001	TAGGGTAATG	AAGCGGCAAT	ATTTTGGAAC	TCGGAAAATA	AAATTGCGCC
6051	ATCACATTAT	TTGAAAATTT	TCACATGCTT	TTATTTTAAA	AACCCACGAA
6101	TTACAAGTTA	CAACCGAAAA	AGATTTTATA	TATAGTGATT	TATACTAATT
6151	TTGTAGTAGC	TTAATGTATA	TTGATACTGG	AAAAACAATG	ACAATCATAT
6201	GTTAGTATTA	TCAAGTTATC	GTATTGATAT	TGATATTGGA	ACATACAATG
6251	GGTATTGCCT	TCTTTCGACC	ATAAATATCA	CCAAATTTAC	AAAGTTTGTG
6301	TATACCAAGT	TATCAATTGT	AAATGGGATG	TCAACATTTT	AATTTCCCTT
6351	TGAGAAACTA	TAGACCACAA	GAACACACTT	CAATAGATAA	AGTAACTATT
6401	TACATAAGAG	GTTTTTAAAT	CACATTAACA	AAAATAATTA	CCAACCGGCA
6451	CTCACAAATA	CAAAACAGAGC	ACACGACATG	TCAAAGCCAC	AAGTAAATTC
6501	GTTGAGTGGT	GGTTTCATTA	CAATTGTGTC	ACTTGCAGCA	CAAACCTATCT
6551	TGCTCTGGGA	ATCATCTCAG	CATCAAAGAT	CATGCTCACT	TCAGGGGAAC
6601	TTAGTGATATC	CATGCCTCGA	CTCATATTTT	TCCTCGACAT	GCATCCTGCA
6651	GGGGCGCGCC	ATGCCCAGGC	AAGCGGCCGC	ACAAGTTTGT	ACAAAAAAGC
6701	AGGCTCCGCG	GTGACTGACT	GAAAAGCTTG	TCGACCTGCA	GGTCAACGGA
6751	TCAGGATATT	CTTGTTTAAAG	ATGTTGAACT	CTATGGAGGT	TTGTATGAAC
6801	TGATGATCTA	GGACCGGATA	AGTTCCCTTC	TTCATAGCGA	ACTTATTCAA
6851	AGAATGTTTT	GTGTATCATT	CTTGTTACAT	TGTTATTAAAT	GAAAAAATAT
6901	TATTGGTCAT	TGGACTGAAC	ACGAGTGTTA	AATATGGACC	AGGCCCCAAA
6951	TAAGATCCAT	TGATATATGA	ATTAAATAAC	AAGAATAAAT	CGAGTCACCA
7001	AACCACTTGC	CTTTTTTAAAC	GAGACTTGTT	CACCAACTTG	ATACAAAAGT
7051	CATTATCCTA	TGCAAATCAA	TAATCATACA	AAAATATCCA	ATAACACTAA

7101	AAAATTTAAAA	GAAATGGATA	ATTTTCACAAT	ATGTTTATACG	ATAAAGAAGT
7151	TACTTTTCCA	AGAAATTCAC	TGATTTTATA	AGCCCACTTG	CATTAGATAA
7201	ATGGCAAAAA	AAAACAAAAA	GGAAAAGAAA	TAAAGCACGA	AGAATTCTAG
7251	AAAATACGAA	ATACGCTTCA	ATGCAGTGGG	ACCCACGGTT	CAATTATTGC
7301	CAATTTTCAG	CTCCACCGTA	TATTTAAAAA	ATAAAACGAT	AATGCTAAAA
7351	AAATATAAAT	CGTAACGATC	GTTAAATCTC	AACGGCTGGA	TCTTATGACG
7401	ACCGTTAGAA	ATTGTGGTTG	TCGACGAGTC	AGTAATAAAC	GGCGTCAAAG
7451	TGGTTGCAGC	CGGCACACAC	GAGTCGTGTT	TATCAACTCA	AAGCACAAAT
7501	ACTTTTCCTC	AACCTAAAAA	TAAGGCAATT	AGCCAAAAAC	AACTTTGCGT
7551	GTAAACAACG	CTCAATACAC	GTGTCATTTT	ATTATTAGCT	ATTGCTTCAC
7601	CGCCTTAGCT	TTCTCGTGAC	CTAGTCGTCC	TCGTCTTTTC	TTCTTCTTCT
7651	TCTATAAAAC	AATACCCAAA	GCTTCTTCTT	CACAATTCAG	ATTTCAATTT
7701	CTCAAAATCT	TAAAAACTTT	CTCTCAATTC	TCTCTACCGT	GATCAAGGTA
7751	AATTTCTGTG	TTCTTATTTC	TCTCAAAATC	TTCGATTTTG	TTTTCGTTTCG
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7901	AGGGTTTCAT	AAATATCATC	CGATTTGTTC	AAATAATTTG	AGTTTTGTCTG
7951	AATAATTACT	CTTCGATTTG	TGATTTCTAT	CTAGATCTGG	TGTTAGTTTC
8001	TAGTTTGTGC	GATCGAATTT	GTCGATTAAT	CTGAGTTTTT	CTGATTAACA
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8301	TCAAGGCAGA	TGGCACAGTG	CGCCAGCACT	CTCCTGCTGA	GTGGGATGAC
8351	ATGATGAAGG	TCATTGTGGG	CAACATGGCC	TGGCACGCCG	ACTCAACCTA
8401	CATGCCAGTC	ATGGCTCAAG	GAGCTGTGTT	CAGCGCAGAA	GTTGTCCAG
8451	CAGTTGGGGG	CAGAACCCTGC	TTTGCTGACA	TGAGGGCAGC	CTACGATGCC
8501	CTTGATGAGG	CAACCCGTGC	TCTTGTTTAC	CAAAGGTCTG	CTCGTCACTC
8551	CCTTGTTGTAT	TCTCAGAGCA	AGTTGGGACA	TGTCCAACAG	GCCGGGTCAG
8601	CCTACATAGG	TTATGGCATG	GACACCACTG	CAACTCCTCT	CAGACCATTG
8651	GTCAAGGTGC	ATCCTGAGAC	TGGAAGGCC	AGCCTCTTGA	TCGGCCGCCA
8701	TGCCCATGCC	ATCCCTGGCA	TGGATGCAGC	TGAATCAGAG	CGCTTCCTTG
8751	AAGGACTTGT	TGACTGGGCC	TGCCAGGCTC	CCAGAGTCCA	TGCTCACCAA
8801	TGGGCTGCTG	GAGATGTGGT	TGTGTGGGAC	AACCGCTGTT	TGCTCCACCG
8851	TGCTGAGCCC	TGGGATTTCA	AGTTGCCACG	TGTGATGTGG	CACTCCAGAC
8901	TCGCTGGACG	CCCAGAAACT	GAGGGTGCTG	CCTTGGTTTG	AGTAGTTAGC
8951	TTAATCACCT	AGAGCTCGGT	CACCAGCATA	ATTTTTATTA	ATGTACTAAA
9001	TTACTGTTTT	GTTAAATGCA	ATTTTGCTTT	CTCGGGATTT	TAATATCAAA
9051	ATCTATTTAG	AAATACACAA	TATTTTGTTG	CAGGCTTGCT	GGAGAATCGA
9101	TCTGCTATCA	TAAAAATTAC	AAAAAAATTT	TATTTGCCTC	AATTATTTTA
9151	GGATTGGTAT	TAAGGACGCT	TAAATTATTT	GTCGGGTCAC	TACGCATCAT
9201	TGTGATTGAG	AAGATCAGCG	ATACGAAATA	TTCGTAGTAC	TATCGATAAT
9251	TTATTTGAAA	ATTCATAAGA	AAAGCAAACG	TTACATGAAT	TGATGAAACA
9301	ATACAAAGAC	AGATAAAGCC	ACGCACATTT	AGGATATTGG	CCGAGATTAC
9351	TGAATATTGA	GTAAGATCAC	GGAATTTCTG	ACAGGAGCAT	GTCTTCAATT
9401	CAGCCCAAAT	GGCAGTTGAA	ATACTCAAAC	CGCCCCATAT	GCAGGAGCGG
9451	ATCATTCATT	GTTTGTTTTG	TTGCCTTTGC	CAACATGGGA	GTCCAAGGTT
9501	GCGGCCGCGC	GCCGACCCAG	CTTTCTTGTA	CAAAGTGGTT	GCGGCCGCTT
9551	AATTAAATTT	AAATGCCCCG	GCGTTTAAAC	GCGGCCGCTT	AATTAAGGCC

9601	GGCCTGCAGC	AAACCCAGAA	GGTAATTATC	CAAGATGTAG	CATCAAGAAT
9651	CCAATGTTTA	CGGGAAAAAC	TATGGAAGTA	TTATGTAAGC	TCAGCAAGAA
9701	GCAGATCAAT	ATGCGGCACA	TATGCAACCT	ATGTTCAAAA	ATGAAGAATG
9751	TACAGATACA	AGATCCTATA	CTGCCAGAAT	ACGAAGAAGA	ATACGTAGAA
9801	ATTGAAAAAG	AAGAACCAGG	CGAAGAAAAG	AATCTTGAAG	ACGTAAGCAC
9851	TGACGACAAC	AATGAAAAGA	AGAAGATAAG	GTCGGTGATT	GTGAAAGAGA
9901	CATAGAGGAC	ACATGTAAGG	TGGAAAATGT	AAGGGCGGAA	AGTAACCTTA
9951	TCACAAAGGA	ATCTTATCCC	CCACTACTTA	TCCTTTTATA	TTTTTCCGTG
10001	TCATTTTTGC	CCTTGAGTTT	TCCTATATAA	GGAACCAAGT	TCGGCATTGT
10051	TGAAAAACAAG	AAAAAATTTG	GTGTAAGCTA	TTTTCTTTGA	AGTACTGAGG
10101	ATACAACTTC	AGAGAAATTT	GTAAGTTTGT	AGATCTCCAT	GTCTCCGGAG
10151	AGGAGACCAG	TTGAGATTAG	GCCAGCTACA	GCAGCTGATA	TGGCCGCGGT
10201	TTGTGATATC	GTTAACCATT	ACATTGAGAC	GTCTACAGTG	AACTTTAGGA
10251	CAGAGCCACA	AACACCACAA	GAGTGGATTG	ATGATCTAGA	GAGGTTGCAA
10301	GATAGATACC	CTTGGTTGGT	TGCTGAGGTT	GAGGGTGTTG	TGGCTGGTAT
10351	TGCTTACGCT	GGGCCCTGGA	AGGCTAGGAA	CGCTTACGAT	TGGACAGTTG
10401	AGAGTACTGT	TTACGTGTCA	CATAGGCATC	AAAGGTTGGG	CCTAGGATCC
10451	ACATTGTACA	CACATTTGCT	TAAGTCTATG	GAGGCGCAAG	GTTTTAAGTC
10501	TGTGGTTGCT	GTTATAGGCC	TTCCAAACGA	TCCATCTGTT	AGGTTGCATG
10551	AGGCTTTGGG	ATACACAGCC	CGGGGTACAT	TGCGCGCAGC	TGGATACAAG
10601	CATGGTGATG	GGCATGATGT	TGGTTTTTGG	CAAAGGGATT	TTGAGTTGCC
10651	AGCTCCTCCA	AGGCCAGTTA	GGCCAGTTAC	CCAGATCTGA	GGTACCCTGA
10701	GCTTGAGCTT	ATGAGCTTAT	GAGCTTAGAG	CTCGGATCCA	CTAGTAACGG
10751	CCGCCAGTGT	GCTGGAATTC	GCCCTTGACT	AGATAGGCGC	CCAGATCGGC
10801	GGCAATAGCT	TCTTAGCGCC	ATCCCGGGTT	GATCCTATCT	GTGTTGAAAT
10851	AGTTGCGGTG	GGCAAGGCTC	TCTTTCAGAA	AGACAGGCGG	CCAAAGGAAC
10901	CCAAGGTGAG	GTGGGCTATG	GCTCTCAGTT	CCTTGTGGAA	GCGCTTGGTC
10951	TAAGGTGCAG	AGGTGTTAGC	GGGATGAAGC	AAAAGTGTCC	GATTGTAACA
11001	AGATATGTTG	ATCCTACGTA	AGGATATTAA	AGTATGTATT	CATCACTAAT
11051	ATAATCAGTG	TATTCCAATA	TGTACTACGA	TTTCCAATGT	CTTTATTGTC
11101	GCCGTATGTA	ATCGGCGTCA	CAAAATAATC	CCCGGTGACT	TTCTTTTAAT
11151	CCAGGATGAA	ATAATATGTT	ATTATAATTT	TTGCGATTTG	GTCCGTTATA
11201	GGAATTGAAG	TGTGCTTGCG	GTCGCCACCA	CTCCCATTTC	ATAATTTTAC
11251	ATGTATTTGA	AAAATAAAAA	TTTATGGTAT	TCAATTTAAA	CACGTATACT
11301	TGTAAAGAAT	GATATCTTGA	AAGAAATATA	GTTTAAATAT	TTATTGATAA
11351	AATAACAAGT	CAGGTATTAT	AGTCCAAGCA	AAAACATAAA	TTTATTGATG
11401	CAAGTTTAAA	TTCAGAAATA	TTTCAATAAC	TGATTATATC	AGCTGGTACA
11451	TTGCCGTAGA	TGAAAGACTG	AGTGCGATAT	TATGGTGTA	TACATAGCGG
11501	CCGGGTTTCT	AGTCACCGGT	TAGGATCCGT	TTAAACTCGA	GGCTAGCGCA
11551	TGCACATAGA	CACACACATC	ATCTCATTGA	TGCTTGGTAA	TAATTGTCAT
11601	TAGATTGTTT	TTATGCATAG	ATGCACTCGA	AATCAGCCAA	TTTTAGACAA
11651	GTATCAAACG	GATGTGACTT	CAGTACATTA	AAAACGTCCG	CAATGTGTTA
11701	TTAAGTTGTC	TAAGCGTCAA	TTTGATTTAC	AATTGAATAT	ATCCTGCCCC
11751	AGCCAGCCAA	CAGCTCGATT	TACAGAGAAC	GAATGTCGTG	TGATATGTGG
11801	AACAAGGCAA	CGACAACAAC	ATACATGAAT	CTCACAATAG	AGTCGGGGTC
11851	GCCGAGTTGT	GATGTAATCC	ATGGCATGGA	CATGGTGGCC	GATCGAAAAA
11901	GAAAAAAGAA	ATGCATGTAT	ATGTGTGAAA	ATGAGAGTTT	TTTTTATCCA
11951	AATAATAAAA	AAAAATTAAAT	TATTTACCCA	AAAAATTATT	TACATGACCG
12001	ATACGTACAC	TTTTTTCCTT	AGTTAAGAAA	CACCGATTTC	TTAATTACAT
12051	TTTTTTATAC	ATTTAGAAAT	TGGTTTCCTT	GGAACCGATT	TCAAAATGTT

12101 CATTTTTTTTTT TTCAAAACCA AGTTAAGAAA TCGGTTTCCTT GGAAAACGAC
12151 TTCTTAATTG CTTTTTTTTT TGTTTTGTTT TAAAATTGTT TGTATTTTAA
12201 TTTTTTTTGT TATTAATTGT CTATATTTGT GTTCTGTTTA AATTGAAAAC
12251 AATATTATTT TTCATATGTT GTTAATTCTT AATTTCTTAT GCATATTTTA
12301 TGTTTTATCA TTTTTTAAGA GTTGAAATCC TTTGTATTTT TATTTTATTT
12351 GATTATTATA ATACATAATT AAACAACAAC TTAATTGAAA TTAaaaaaATA
12401 TATATTTAAC TGACAAGTTG ACTTGAAC TAATATTTAA ATTACAAAAT
12451 AGATATGAAA TTACAAACAA TAGAACAAAA TATTTAAATT TGAAATAATA
12501 CAACAAAAAT TTTAAAATAC AAACAATATG GCATAAAATT AATGTTGTTG
12551 GCCTGAGCCT ACACAATGGG GGAATGCGA CACATGGAAC ATCATTTTGG
12601 TTTACCTGAT TCTTGATAT CCATTTTGGT GTGTATACGA GAGGAGACAT
12651 GACAACCTTT AGAATTTCTT TTCATTTTGG GTTGGGGCA AATTCTTGGC
12701 TTGTGACATG GTGACCAACA TGCTTCATTG CACAATTTCC CAAGTAATCA
12751 TTTGTACATG TTATAGATAC TTTTCAGCGT ATACACAAGA TGTATGTAGT
12801 TCCTATACTC ATGGTGAGCA TGCTTATAAA CAACAACATG AGAACAAAAC
12851 ATGTGCATTT TTTGAAATTT GTCACAGTCA CACTACCTTT CATCTAGCTT
12901 GACCATGAAA TTTCTCACTA GTTGAATCTC TCTCTCCAGT TAATTGTCTC
12951 CTAGACTAAG AATTGTATGT CGCATTAATC GAACTCAAGA ACAATGTGAG
13001 AGTTTGCCTT TTTCTGTATG TCTTTCATAG CCTTGTTTAA TACTTTTGTA
13051 TAAACTTCAC CAAATGTAAT CACTCTTGCG ACTTCTCTCC CCCTTTGGTT
13101 GAACAATGCA TTACACCTAG TATAGGTTGA TTTTACCAAC ACACATTGCC
13151 AGATTTTGTG TTTTCTTGAG TACCAAATTA ATTAACCTAG TGTCCCCATC
13201 GCCAGCCACC ATCCCATGCG AGAGTCCACT TTTCTTGTGG AATCTTCCTA
13251 AGCTAATTAA TTGTTAGTTC AGCTTGGCCT TAAAACACAC ATGACAAATA
13301 TTTTTATTAT AAAACAAACA CCCAGTGATA CAACAATGAA CAACACACAT
13351 GACAACTACA AATCATTAAT TAATACAATT ACAATCAAAT AATTTGGGGA
13401 GGGGGTCTTC AAAACTTGAT TCAAGGTTCA TTGTATCATC GAGGTATTCA
13451 CCCAAACCTT CCAAATTCAT AGAGCTTGCA GAACTGGTG GTGGTTGTGC
13501 ATATGTTTAT GTGGGTGTGT CTACGGTGAT AACATAAAAC TCAAGGCATG
13551 TGAAGTTGAA GAGTTTCCCA AATATAGAAA ACATAGTAAT TATTTCTCTA
13601 TCATCTTGCA GCATACATGC CCTGTACTGA AAACAATCAC CAACAAATGA
13651 TACGGGACA

Figure 2. Sequence of the 5' flanking border region through the deleted region by DAS-44406-6 T-DNA insert and into the 3' flanking border region in Maverick (border genome sequences are under lined; 4383bp deletion at position 1495-5877 bp)

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1   CCGCTGAAGA AGATCAAGTG TGTGAACCAA AGTGAAAATA ATGTTTAGAA
51  GCCAACACAG TGGACAATTT TGATTTCTGG TTAATGGGTG TATTAAAAAT
101 ATCAGAAAAC TTTCAAATAT CTCGAGCAGG CAGTTGGGTT GCCTAATCCA
151 TCACTTGATC TCAAAGATTC TTGTTGTCAA GCTTCGATGA GTAGCGAAAC
201 CTACCGTGTG GGCTCTAAGC TTTAGGTTGC CATTGACGAT CTTGACACGA
251 CATATGACCT ATGATAGCAA TTCAAACATG GTTCATATCA GCTGAGTTGC
301 AGACTTAGCT GCTAGCATTT CACGTTGTGA ATGCAAGAGG AAAAATACAT
351 AGAAAAAGAG GGAACAAAAT TGTTAACCCT CCATATGTAC AGGTTTTAGC
401 CTCAATTTTA CCCATTGATT GATTTATTAT TGAAAAGTAA TCAC TTATCA
451 GAACCAGAGT TTGTAATTCA GCTTGTATCG TACCATCTAA TATCTTAGTC
501 AAATTTGTGT ATAATAAGTA TTAAATGTG AGTCTCTTTT ATTTAATTAG
551 TTTAAATAAT TGGAATACAA TTGGCAAATG GGCAC TTCAA CTATAATTAG
601 TGAATTGATT TAGTTGACTG TTATGAAGTA TTTTACTTAA GTTAGTAATA
651 GTAGAGTGAT GTTTGATGAA TTAAACTTAA GATTGGTTGA AGTTATTGAT
701 CTCACTGGAT CCATAGTTTG GTCTGTGGGA TTGCATCTGA AACGGATCAT
751 ATGGTTTTGT TTTGTGACTG AATTGTGGCA ATGTAACACC TGGACTTTTT
801 CACAACTATT GTATAAATCC AGTATATCTC ACGTGAATCT GAAATTAGTA
851 GCATGCTTAA CATATAAGTA TCGATTTATC TAATCAGTTT CCATATTTAT
901 GAAAACTGCA CTGTTGAAAA TTGTGCAAGC TTAACATACA AGTAATGTAA
951 TCCACAGTAC GAAAAATGTG CAGGTTCTTA TTTGTGCTCC ATAATTGTTT
1001 CTTGATTCCG ATCAAAGCAA GAGCATCCAG TCTCAAATT TTGTCTTCTC
1051 AATTCAC TCA TTCATCAAAA TCAGCAGTTT TATGCATCAA CAAGCATGGA
1101 ATGTTGAACC ACCCATGATT AAGCCCCATA TCGTTGTGTT GAGATAACTA
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1201 ACCTTTCTCG GCCTTTTGGC TAAGATCAAG TG TAGTATCT GTTCTTATCA
1251 GTTTAATATC TGATATGTGG GTCATTGGCC CACATGATAT TAAATTTATT
1301 TTTTGAAGGG TGGGGCCTGA CATAGTAGCT TGCTACTGGG GGTTCCTAAG
1351 CGTAGCCTGT GTCTTGCACT ACTGCATGGG CCTGGCGCAC CCTACGATTC
1401 AGTGTATATT TATGTGTGAT AATGTCATGG GTTTTATTG TTCTTGTTGT
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1501 AAGTTATCAC TGTAATCTT ACAATTTTAA ATGGACTCTT TTGTCTATCT
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1601 GTTTACGAGA TAGGAAGAAA AGTCTCTATA CCATGAGGCA AAAACTCTCT
1651 AAAGAAATTG ATGGGGTCGG CTACATGGAT CAACTTCCGC CATAATGTTT
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1801 TCTTCTCTCC ATCTGGTCTA CTCTCCTCAC TACAGAGTCT ACCGGTCTTC
1851 TCTCTACATG CCCAAACCAC CTAAGTCTAT TTCCACCAT CTTCTCTACA
1901 ATAGGCGCTA CTCCAACCCT CTCTCTAATA GCTTCGTTTC TAATTTTATC
1951 CTGTCGAGTC TTACCACACA TCCACGCAA CATCCTCATC TCCGCTACAC
2001 CTACTTTATT CTCATGTTGG CTCTTGACCG CCCAACATTC TGTTCCGTAC

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2151	ATCCTGCTTG	AATGCGATGA	TTCACATCCC	CTTCAATTTT	CCCATCATCC
2201	TGTATTACAG	ACCCAAGATA	TTTAAACCGT	GTGACTTGAG	GGATAATATG
2251	GTCTCCTATT	TTCACCTCTG	AGTTAGAAAC	CCTCCTTCTT	TTGTTGAACT
2301	TACATTCCAT	ATACTCCGAT	TTGCTTCTGC	TTAGGCGAAA	GCCATGTGTT
2351	TCTAGAGCTC	GTCTCCAAGT	TTCCAACCTC	TCATTCAACT	CCTCCCTCGA
2401	CTCTCCAAGG	AGGACTATGT	CATCTGCAAA	AAGCATGCAT	CTCGGCGCTA
2451	TCTCTTGAAA	TTGATTTGAA	ACTATGTCAA	AGGTCCAATA	TTGAAAGAAT
2501	TTTAGGGGTT	TTTCTTGACT	TTATTATTAT	TAGTGCACAC	ACACTGTAAC
2551	ATGTACCAGA	TTCTCGTTCT	TTAAATTTGT	AAATAATATT	TTTTTTCTTT
2601	CTAAACATGC	AGAGTCATCA	AATAATGCTT	ATGTTTTGCT	TCTTCTATAG
2651	GTTCAAAAAC	ATGGAATTCA	TCCTCAACAT	CTCTCTCGGT	AACTTATGAA
2701	TCAAGTTTAT	CAACATACAC	GTGAGTCATC	ATTTCAACCT	TTCAAAATCA
2751	CAAGAAATTA	ATACCTTACA	TGTCACAAAG	AACACAAGTC	AAATAACTTA
2801	CTTTATTAAA	TTCATATAAA	ATGGAGATTTC	TTATGAAAAA	CAATAATTTT
2851	TCTATCTGTA	AAGATCTTGA	AGGACCGAAG	ATAATTGTAA	AAAGAACTGA
2901	ACCAGAACAA	AAGGGAAATC	AGAAGCTGAA	TAATGAGGTG	AAGAACTAAA
2951	AAATAAACCT	AGTAGTCCTG	TTCACCCTTT	GTAGTATGCT	ACGAACTTGT
3001	TGCAGAAGTG	AAGCTTTCTT	AATATATGAA	AGAGGAAGGA	GAGGGAAAAC
3051	AATGGGAAAA	CAAACGATAG	AAGGCGAGCA	TTATGGATAT	GTCTGTCTGT
3101	CTTGTTTCGT	GACCACATCC	CATATCGAGT	AAATAAGTGG	AAATAAATGT
3151	TTATGCTATA	AATTGAAAGA	GCTGCAATTA	GTTTTAATCA	TCGAGCCGTG
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3251	CCTAAACCTG	TATGTGCCAA	TTTTTGTAAC	AGGGTCTTCA	AAAGAGGACC
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3601	AGTTGCTGCC	ACATGGTGAA	CTGGTATTTT	TAAATCCAAA	ACTAACAATA
3651	GTGAGGAATG	CATTAAAAAA	AATTTAGATC	ACTTGAAACA	TGTTCTAGTT
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4051	TCAGAAGCAA	GACAGTCAAC	AATATTTTAG	TGGCTGACTG	GTTGGCAGTG
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4151	AGAAAAGCCA	GACTGTGAAG	GGAGATTACT	ATACATAGAA	AAAAAGTTCA
4201	AAGGATAGAG	AAATTGCATA	AGAGGGAGTA	AGAAAATTAC	TCATTGGCTG
4251	AAGTAAATTT	ATGAAACTGA	TACAAGCTAT	TATAAAAGGA	GTTCTCAGGC
4301	ACACTAACTA	AACATCTTTG	CGCTTGGGAC	AATAACGCAG	CTAGTGAGGT
4351	TCTAACCAGG	GTGTGTCTAT	TGCTGGTTGA	AAACTATTTT	CAAACCCCTT
4401	CTGAGGCCTG	GGATTGGAAA	TAGTCCTAAG	ATAATAGTTC	AATTTTTTTT
4451	TTTGTGAGGC	GTGGGGATAA	TCTATGTGGG	GAATGGTGAT	TTGGTTTCTT
4501	TTCTAGTTTC	CATACCTGTA	GAGTTTAGAT	ACCTCTTTGG	AATACAAGGG

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6851 TCATTTGTAC ATGTTATAGA TACTTTTCAG CGTATACACA AGATGTATGT
6901 AGTTCCTATA CTCATGGTGA GCATGCTTAT AATCAACAAC ATGAGAACAA
6951 AACATGTGCA TTTTTTGAAA TTTGTCACAG TCACACTACC TTTCATCTAG
7001 CTTGACCATG AAATTTCTCA CTAGTTGAAT CTCTCTCTCC AGTTAATTGT

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7051 CTCCTAGACT AAGAATTGTA TGTCGCATTA ATCGAACTCA AGAACAATGT
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7351 CTAAGCTAAT TAGTTGTTAG TTCAGCTTGG CCTTAAAACA CACATGACAA
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7451 CATGACAACT ACAAATCATT AAATAATACA ATTACAATCA AATAATTTGG
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7551 TCACCCAAAC CCTCCAAATT CAAAGAGCTT GCAGAACTG GTGGTGTTG
7601 TGCATATGTT TATGTGGGTG TGTCTACGGT GATAACATAA AACTCAAGGC
7651 ATGTGAAGTT GAAGAGTTTC CCAAATATAG AAAACATAGT AATTATTTCC
7701 TCATCATCTT GCAGCATACA TGCCCTGTAC TGAAAACAAT CACCAACAAA
7751 TGATACGGGA CA

Figure 3. The 3 bp insertion at the 5' flanking border (italics and red) in DAS-44406-6 and the 4383bp deleted region by DAS-44406-6 T-DNA insert in the parental locus of Maverick

5' end Border	<u>TATGTGTGAT AATGTCATGG GTTTTTATTG TTCTTGTTGT TTCCTCTTTA</u>
Parental Locus	<u>TATGTGTGAT AATGTCATGG GTTTTTATTG TTCTTGTTGT TTCCTCTTTA</u>
5' end Border	<u>GGAACCTACA TGTAACCGT AAGGTCATCA TGGAGGT T-DNA Insert</u>
Parental Locus	<u>GGAACCTACA TGTAACCGT AAGGTCATCA TGGA ~4Kb deletion</u>
3' end Border	<u>GAGAACGAAT GTCGTGTGAT ATGTGGAACA AGGCAACGAC AACAAACATAC</u>
Parental locus	<u>GAGAACGAAT GTCGTGTGAT ATGTGGAACA AGGCAACGAC AACAAACATAC</u>

APPENDIX

1. Archive of BLASTn Search Output of the 5' Border Sequence of DAS-44406-6

This file is electronically stored in a secured computer in Dow AgroSciences and available for view in PDF format.

2. Archive of BLASTn Search Output of the 3' Border Sequence of DAS-44406-6

This file is electronically stored in a secured computer in Dow AgroSciences and available for view in PDF format.

3. Archive of BLASTn Search Output of the Parental Locus in Maverick

This file is electronically stored in a secured computer in Dow AgroSciences and available for view in PDF format.

4. Archive of BLASTp Search Output of the Open Reading Frame in Maverick

This file is electronically stored in a secured computer in Dow AgroSciences and available for view in PDF format.

Appendix of Report 102117

BLASTn Search Output of DAS-44406-6 5' Border sequence

BLASTN 2.2.22 [Sep-27-2009]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Database: ../blastlibs/G_max_Genome
 1418 sequences; 996,379,823 total letters

Query= DAS-44406-6 5' Border
 (1494 letters)

Sequences producing significant alignments:			Score (bits)	E Value
gb CM000839.1 	Glycine max chromosome 6, whole genome shotg...	2900	0.0	
gb CM000843.1 	Glycine max chromosome 10, whole genome shot...	236	1e-59	
gb CM000853.1 	Glycine max chromosome 20, whole genome shot...	228	2e-57	
gb CM000847.1 	Glycine max chromosome 14, whole genome shot...	210	6e-52	
gb CM000848.1 	Glycine max chromosome 15, whole genome shot...	198	2e-48	
gb CM000852.1 	Glycine max chromosome 19, whole genome shot...	192	1e-46	
gb ACUP0100042.1 	Glycine max chromosome 1 GLYMChr_01_Con...	190	5e-46	
gb CM000834.1 	Glycine max chromosome 1, whole genome shotg...	190	5e-46	
gb CM000841.1 	Glycine max chromosome 8, whole genome shotg...	188	2e-45	
gb CM000846.1 	Glycine max chromosome 13, whole genome shot...	184	3e-44	
gb CM000850.1 	Glycine max chromosome 17, whole genome shot...	178	2e-42	
gb CM000835.1 	Glycine max chromosome 2, whole genome shotg...	176	8e-42	
gb CM000838.1 	Glycine max chromosome 5, whole genome shotg...	168	2e-39	
gb CM000836.1 	Glycine max chromosome 3, whole genome shotg...	167	8e-39	
gb CM000840.1 	Glycine max chromosome 7, whole genome shotg...	163	1e-37	
gb CM000837.1 	Glycine max chromosome 4, whole genome shotg...	163	1e-37	
gb GG730463.1 	Glycine max unplaced genomic scaffold GLYMA...	159	2e-36	
gb CM000851.1 	Glycine max chromosome 18, whole genome shot...	123	1e-25	
gb CM000842.1 	Glycine max chromosome 9, whole genome shotg...	109	2e-21	
gb CM000849.1 	Glycine max chromosome 16, whole genome shot...	56	2e-05	
gb GG730590.1 	Glycine max unplaced genomic scaffold GLYMA...	46	0.020	
gb GG730372.1 	Glycine max unplaced genomic scaffold GLYMA...	44	0.078	
gb CM000845.1 	Glycine max chromosome 12, whole genome shot...	44	0.078	
gb ACUP01000226.1 	Glycine max chromosome 1 GLYMChr_01_Con...	40	1.2	
gb CM000844.1 	Glycine max chromosome 11, whole genome shot...	40	1.2	
gb ACUP01000062.1 	Glycine max chromosome 1 GLYMChr_01_Con...	38	4.8	

>[gb|CM000839.1|](#) Glycine max chromosome 6, whole genome shotgun sequence
 Length = 50722821

Sbjct: 18558097 ccgctgaagaagatcaagtgtgtgaaccaaagtgaaaataatgtttagaagccaacacag
 18558038

Sbjct: 18558037 tggacaattctgatttctggttaatgggtgtattaaaaaatatcagaaaactttcaaatat
 18557978

Sbjct: 18557977 ctcgagcaggcagttgggttgccctaataccatcacttgatctcaaagattcttgttgtcaa
18557918

Sbjct: 18557917 gcttcgatgagtagcgaaacctaccgtgtgggctctaagctttaggttgccattgacgat
18557858

Sbjct: 18557857 cttgacacgacatatgacctatgatagcaattcaaacatggttcatatcagctgagttgc
 18557798

Sbjct: 18557797 agacttagctgctagcatttcacgttgtgaatgcaagaggaaaaatacatagaaaaagag
 18557738

Sbjct: 18557737 ggaacaaaattgttaaccctccatatgtacaggttttagcctcaattttaccattgatt
18557678

Query: 421 gatttattattgaaaagtaatcacttatcagaaccagagtttgtaattcagcttgatcg
480

Sbjct: 18557677 gatttattattgaaaagtaatcacttatcagaaccagagtttgtaattcagcttgtatca
18557618

Query: 481 taccatctaatatcttagtcaaatttggtgtataataagtatttaaattgtgagtcctctttt
540

|||||
Sbjct: 18557617 taccatctaatatcttagtcaaatttggtgtataataagtatttaaattgtgagtcctctttt
18557558

Query: 541 atttaattagtttaaataattggaatacaattggcaaattgggcacttcaactataattag
600

|||||
Sbjct: 18557557 atttaattagtttaaataattggaatacaattggcaaattgggcacttcaactataattag
18557498

Query: 601 tgaattgatttagttgactggttatgaagtatcttacttaagttagtaatagtagagtgat
660

|||||
Sbjct: 18557497 tgaattgatttagttgactggttatgaagtatcttacttaagttagtaatagtagagtgat
18557438

Query: 661 gtttgatgaattaaacttaagattggttgaagttattgatctcactggatccatagtttg
720

|||||
Sbjct: 18557437 gtttgatgaattaaacttaagattggttgaagttattgatctcactggatccatagtttg
18557378

Query: 721 gtctgtgggattgcatctgaaacggatcatatgggttttggttgactgaattgtggca
780

|||||
Sbjct: 18557377 gtctgtgggattgcatctgaaacggatcatatgggttttggttagtgactgaattgtggca
18557318

Query: 781 atgtaacacctggactttttcacaactattgtataaatccagtatatctcacgtgaatct
840

|||||
Sbjct: 18557317 atgtaacacctggactttttcacaactattgtataaatccagtatatctcacgtgaatct
18557258

Query: 841 gaaattagtagcatgcttaacatataagtatcgatttatctaatacagtttccatatttat
900

|||||
Sbjct: 18557257 gaaattagtagcatgcttaacatataagtatcgatttatctaatacagtttccatatttat
18557198

Query: 901 gaaaactgcactggttgaaaattgtgcaagcttaacatacaagtaatgtaatccacagtac
960

|||||

Sbjct: 18557197 gaaaactgcactgttgaaaattgtgcaagcttaacatacaagtaatgtaatccacagtac
18557138

Query: 961 gaaaaatgtgcaggttcttattttgtgctccataattgtttcttgattccgatcaaagcaa
1020

|||||
Sbjct: 18557137 gaaaaatgtgcaggttcttattttgtgctccataattgtttcatgattccgatcaaagcaa
18557078

Query: 1021 gagcatccagtctcaaaatTTTgtcttctcaattcactcattcatcaaaatcagcagttt
1080

|||||
Sbjct: 18557077 gagcatccagtctc--aattttgtcttctcaattcactcattcatcaaaatcagcagttt
18557020

Query: 1081 tatgcatcaacaagcatggaatgttgaaccacccatgattaagccccatatcgTTgtgtt
1140

|||||
Sbjct: 18557019 tatgcatcaacaagcatggaatgttgaaccacccatgattaagccccatatcgTTgtgtt
18556960

Query: 1141 gagataactatcacctgaagttgtcttataaaaaacacatctgaatactTTTtataatcat
1200

|||||
Sbjct: 18556959 gagataactatcacctgaagttgtcttataaaaaacacatctgaatactTTTtataatcat
18556900

Query: 1201 acctttctcggccttttggctaagatcaagtgtagtatctgTtcttatcagTTtaatatc
1260

|||||
Sbjct: 18556899 acctttctcggccttttggctaagatcaagtgtagtatctgTtcttatcagTTtaatatc
18556840

Query: 1261 tgatatgtgggtcattggcccatgatattaaatTTtatttttgaaggggtggggcctga
1320

|||||
Sbjct: 18556839 tgatatgtgggtcattggcccatgatattaaatTTtatttttgaaggggtggggcctga
18556780

Query: 1321 catagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgcatggg
1380

|||||
Sbjct: 18556779 catagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgcatggg
18556720

Query: 1381 cctggcgcaccctacgattcagtgtatatTTtatgtgtgataatgtcatgggTTTTtattg
1440

|||||

Sbjct: 18556719 cctggcgccaccctacgattcagtgtatatatttatgtgtgataatgtcatggggtttttattg
18556660

Query: 1441 ttcttggtggttctctcttaggaacttacatgtaaacggtaagggtcatcatgga 1494
|||||

Sbjct: 18556659 ttcttggtggttctctcttaggaacttacatgtaaacggtaagggtcatcatgga
18556606

Score = 192 bits (97), Expect = 1e-46
Identities = 133/145 (91%)
Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256

Sbjct: 5994401 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
5994342

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaattttattttttgaaggggtggggc
1316

Sbjct: 5994341 tatctgatatgtggatcattggtccacacgatattaaattacttttttgatggggagggt
5994282

Query: 1317 ctgacatagtagcttgctactgggg 1341
| | | | |
Sbjct: 5994281 ccgatacagtagcttgctactgggg 5994257

Score = 176 bits (89), Expect = 8e-42
Identities = 104/109 (95%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
1257

Sbjct: 18840851 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
18840910

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaattttattttttga 1306
|||||

Sbjct: 18840911 atctgatatgtggaccattggttcacacgatattaaattttattttttga 18840959

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1433 ttttattggtccttggtggt 1451
 |||||
Sbjct: 17569718 ttttattggtccttggtggt 17569736

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 660 tgtttgatgaattaaactt 678
 |||||
Sbjct: 18413343 tgtttgatgaattaaactt 18413361

Score = 38.2 bits (19), Expect = 4.8
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 1364 ttgcactactgcatgggcctggc 1386
 |||||
Sbjct: 18841016 ttgcactactgcaagggcctggc 18841038

Score = 38.2 bits (19), Expect = 4.8
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 534 ctcttttattttaattagtttaaataat 560
 |||||
Sbjct: 38660044 ctcttttattttaatttaatttaataat 38660070

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1288 tattaaatttattttttga 1306
 |||||
Sbjct: 39629850 tattaaatttattttttga 39629868

Score = 38.2 bits (19), Expect = 4.8
 Identities = 19/19 (100%)
 Strand = Plus / Minus

Query: 1442 tcttggtggtttcctcttta 1460
 |||||
 Sbjct: 50416732 tcttggtggtttcctcttta 50416714

>[gb|CM000843.1](#) Glycine max chromosome 10, whole genome shotgun sequence
 Length = 50969635

Score = 236 bits (119), Expect = 1e-59
 Identities = 252/295 (85%), Gaps = 1/295 (0%)
 Strand = Plus / Plus

Query: 1100 aatggtgaaccacccatgattaagcccatatcggtgtgtgagataactatcacctgaa
 1159
 |||||
 Sbjct: 50236561 aatgtggaaccacccatgagtgagtgccacatcgctgagttaagataagaatcacctgaa
 50236620

Query: 1160 gttgtcttataaaaaacacatctgaatacttttataatcatacctttctcggccttttgg
 1219
 ||| |
 Sbjct: 50236621 gttttattataaaaacaaacgtttcaacagttaaaaattcatacctttctcggccttttgg
 50236680

Query: 1220 ctaagatcaagtgtagtagtatctgttcttatcagtttaatatctgatatgtgggtcattggc
 1279
 |||||
 Sbjct: 50236681 ctaagatcaagtgtagtagtatctgttcttatcagtttaatatctgatatgtgggcatggc
 50236740

Query: 1280 ccacatgatattaaatttattttttgaaggggtggggcctgacatagtagcttgctactgg
 1339
 |||||
 Sbjct: 50236741 ccacacgatattaaatttattttttgaaggggagatcccaatgcagtagcttgctact-g
 50236799

Query: 1340 ggggttcttaagcgtagcctgtgtcttgactactgcatgggcctggcgacccta 1394
 |||||
 Sbjct: 50236800 ggggttctcaagcgtcgtccttggttttgactatagcatgggcctggcgacccta
 50236854

Score = 216 bits (109), Expect = 9e-54
Identities = 223/258 (86%), Gaps = 16/258 (6%)
Strand = Plus / Plus

Query: 746 atcatatgggttttgttttgtgactgaattgtggcaatgtaacacctggactttttcacaa
805
|||||
Sbjct: 50236004 atcatatgggttttgttttgtgactgaattgtgacaacgtaacacctggactttttcacaa
50236063

Query: 806 ctattgtataaatccagtatatctcacgtgaatctgaaattagtagcatgcttaacatat
865
|||||
Sbjct: 50236064 ctattgtatagatccagtatatctaattgtgaatatgaa---agtagcatgcttaacatat
50236120

Query: 866 ----aagtatcgatttatctaattc---agtttccatatttatgaaaactgcactggttgaa
918
| ||||
Sbjct: 50236121 attaatgtat-gatgtatttaatacatcagtttccatatctatgaaaacagcactggttgaa
50236179

Query: 919 aattgtgcaagcttaacatacaagtaatgtaatccacagtacgaaaaatgtgcaggttct
978
|||||
Sbjct: 50236180 gattgtgtaagggttaacata-----aatgtattctacagtacgaaaaatgagcaggatct
50236234

Query: 979 tatttgtgctccataatt 996
|||
Sbjct: 50236235 tatctgtgctccataatt 50236252

Score = 176 bits (89), Expect = 8e-42
Identities = 101/105 (96%)
Strand = Plus / Minus

Query: 1192 tataatcacacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcag
1251
||||
Sbjct: 45568616 tataatcacacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcag
45568557

Query: 1252 ttttaatatctgatatgtgggtcattggcccacatgatatttaaatt 1296
|||||
Sbjct: 45568556 ttttaatatctgatatgtgggtcattgggtccacacgatatttaaatt 45568512

Score = 176 bits (89), Expect = 8e-42
Identities = 104/109 (95%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256
|||||
Sbjct: 45596422 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
45596481

Query: 1257 tatctgatatgtgggtcattggccacatgatattaaatttattttttg 1305
|||||
Sbjct: 45596482 tatctgatatgtgggtcattgggtccacacgatattaaattacttttttg 45596530

Score = 163 bits (82), Expect = 1e-37
Identities = 133/147 (90%), Gaps = 6/147 (4%)
Strand = Plus / Minus

Query: 563 gaatacaattggcaaattgggcacttcaactataattagtgaattgatttagttgactggt
622
|||||
Sbjct: 50060445 gaatacaattgataaatgggcacttcaactataattattgaattgatttcgtaactggt
50060386

Query: 623 atgaagtattttac----ttaagttagtaatagtagagtgatgtttgatgaattaaactt
678
||
Sbjct: 50060385 atcaagtattttacttatttaagttagtaa-agtagagtgatgtttgattaattaaactt
50060327

Query: 679 aagattggttgaagttattgatctcac 705
||
Sbjct: 50060326 -agtttggttgaagttattgatctcac 50060301

Score = 157 bits (79), Expect = 8e-36
Identities = 94/99 (94%)
Strand = Plus / Minus

Query: 241 cttgacacgacatatgacctatgatagcaattcaaacatgggttcatatcagctgagttgc
300
|||||

Sbjct: 50060908 cttgacactacatatgacctatgatagatattcaaacatgggttcatatcagctgagttgc
50060849

Query: 301 agacttagctgctagcatttcacgttgtgaatgcaagag 339
|||||
Sbjct: 50060848 agacttagctgccaacatttcacgttgtgaatgcaagag 50060810

Score = 155 bits (78), Expect = 3e-35
Identities = 81/82 (98%)
Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttggttaagatcaagtgtagtatctgttcttatcagtttaa
1256
|||||
Sbjct: 50060089 tcatacctttctcggccttttggttaagatcaagtgtagtatctgttcttatcagattaa
50060030

Query: 1257 tatctgatatgtgggtcattgg 1278
|||||
Sbjct: 50060029 tatctgatatgtgggtcattgg 50060008

Score = 123 bits (62), Expect = 1e-25
Identities = 97/108 (89%), Gaps = 3/108 (2%)
Strand = Plus / Minus

Query: 453 accagagtttgtaattcagcttgatcgaccatctaatacttagtcaaatttggtgat
512
|||||
Sbjct: 50060567 accagagtttgtaattcagcttgatcataccatctaacattttagtcaaatttggtgt--
50060510

Query: 513 aataagtattttaaagtgtgagtccttttatttaattagtttaaataat 560
|||||
Sbjct: 50060509 -ataagtattttaaagttgtgtctgttttatttaattagtataaataat 50060463

Score = 119 bits (60), Expect = 2e-24
Identities = 76/80 (95%), Gaps = 1/80 (1%)
Strand = Plus / Minus

Query: 56 cacagtggacaattttgatttctgggttaatgggtgtattaaaaatatcagaaaactttca
115
|||||

[illegible]

Sbjct: 50053757 ggacaacttcgatttctgggttatgggtgtcttaaaa-tatcagaaaactttcaaatatc
50053699

Query: 122 tcgagcaggcagtt 135
| |||||
Sbjct: 50053698 ttgagcaggcagtt 50053685

Score = 83.8 bits (42), Expect = 9e-14
Identities = 67/74 (90%), Gaps = 1/74 (1%)
Strand = Plus / Minus

Query: 62 ggacaattttgatttctgggttaatgggtgtattaaaaatatcagaaaactttcaaatatc
121
||||| || |||||
Sbjct: 50050520 ggacaacttcgatttctgggttatgggggtcttaaaa-tatcagaaaactttcaaatatc
50050462

Query: 122 tcgagcaggcagtt 135
| |||||
Sbjct: 50050461 ttgagcaggcagtt 50050448

Score = 81.8 bits (41), Expect = 4e-13
Identities = 62/69 (89%)
Strand = Plus / Plus

Query: 637 ttaagttagtaatagtagagtgatgtttgatgaattaaacttaagattgggttgaagttat
696
||||| || | |||||
Sbjct: 50235885 ttaagttgggtcacagtagagtgatatttgattaattaaacttaagtttgggttgaagttac
50235944

Query: 697 tgatctcac 705
|||||
Sbjct: 50235945 tgatctcac 50235953

Score = 79.8 bits (40), Expect = 1e-12
Identities = 61/68 (89%)
Strand = Plus / Minus

Query: 155 ttgatctcaaagattcttgttgtcaagcttcgatgagtagcgaaacctaccgtgtgggct
214
|||| |||||

Score = 56.0 bits (28), Expect = 2e-05
 Identities = 65/76 (85%), Gaps = 1/76 (1%)
 Strand = Plus / Minus

Query: 56 cacagtggacaatttttgatttctgggttaatgggtgtattaaaaatatcagaaaactttca
 115
 ||||| ||||||||||||||||||||||| ||||| | | ||||||||||||||| ||
 Sbjct: 50057126 cacagaggacaatttttgatttctgggttatgggtatcat-gaaatatcagaaaaccatga
 50057068

Query: 116 aatatctcgagcaggc 131
 ||||||| |||||||
 Sbjct: 50057067 aatatcttgagcaggc 50057052

Score = 54.0 bits (27), Expect = 8e-05
 Identities = 39/42 (92%), Gaps = 2/42 (4%)
 Strand = Plus / Minus

Query: 757 ttgttttgtgactgaattgtggcaatgtaacacctggacttt 798
 ||||||||||||||||||||||||| |||| |||||||||||
 Sbjct: 50049723 ttgttttgtgactgaattgtggcaa--taacgcctggacttt 50049684

Score = 50.1 bits (25), Expect = 0.001
 Identities = 28/29 (96%)
 Strand = Plus / Minus

Query: 674 aacttaagattgggttgaagttattgatct 702
 ||||||| |||||||||||||||||||
 Sbjct: 14281636 aacttaagtttgggttgaagttattgatct 14281608

Score = 50.1 bits (25), Expect = 0.001
 Identities = 28/29 (96%)
 Strand = Plus / Plus

Query: 674 aacttaagattgggttgaagttattgatct 702
 ||||||| |||||||||||||||||||
 Sbjct: 28009112 aacttaagtttgggttgaagttattgatct 28009140

Score = 50.1 bits (25), Expect = 0.001
Identities = 57/67 (85%), Gaps = 3/67 (4%)
Strand = Plus / Minus

```
Query: 495      ttagtcaaatttgtgtataataagtattttaaattgtgagtcctcttttatttaattagttta
554
                ||||||||||||| ||||||| | ||||||| ||||||| ||||||| ||| |||||||
Sbjct: 50049901 ttagtcaaatttgagtataata---acttaaattgcgagtcctgttttatgtaagtagttta
50049845
```

```
Query: 555      aataatt 561
                | |||||
Sbjct: 50049844 attaatt 50049838
```

Score = 50.1 bits (25), Expect = 0.001
Identities = 28/29 (96%)
Strand = Plus / Minus

```
Query: 4          ctgaagaagatcaagtgtgtgaaccaaag 32
                ||||| |||||||||||||||||||||
Sbjct: 50050597 ctgaacaagatcaagtgtgtgaaccaaag 50050569
```

Score = 50.1 bits (25), Expect = 0.001
Identities = 25/25 (100%)
Strand = Plus / Minus

```
Query: 5          tgaagaagatcaagtgtgtgaacca 29
                |||||||||||||||||||||
Sbjct: 50057199 tgaagaagatcaagtgtgtgaacca 50057175
```

Score = 42.1 bits (21), Expect = 0.31
Identities = 27/29 (93%)
Strand = Plus / Minus

```
Query: 450      agaaccagagtttgtaattcagcttgat 478
                ||||| ||||| |||||||||||||||||
Sbjct: 50045812 agaacctgagtttagtaattcagcttgat 50045784
```

Score = 42.1 bits (21), Expect = 0.31

Identities = 51/61 (83%)
Strand = Plus / Minus

```
Query: 279      tggttcatatcagctgagttgcagacttagctgctagcatttcacgttgtgaatgcaaga
338            |||
Sbjct: 50046072 tggttcatatcagttgaattgcagacttggctttcatcatatctcgttgtgaatgaaaga
50046013
```

```
Query: 339      g 339
      |
Sbjct: 50046012 g 50046012
```

Score = 42.1 bits (21), Expect = 0.31
Identities = 33/37 (89%)
Strand = Plus / Minus

```
Query: 762      ttgtgactgaattgtggcaatgtaacacctggacttt 798
             |||||
Sbjct: 50052932 ttgtgactaaattgtggcaataacaacgctggacttt 50052896
```

Score = 42.1 bits (21), Expect = 0.31
Identities = 93/115 (80%), Gaps = 4/115 (3%)
Strand = Plus / Minus

```

Query: 448          tcagaaccagagtttgtaattcagcttgta-tcgtaccatctaatatcttagtcaaattt
506
                |||
Sbjct: 50053165    tcagaacctgattttgtaattcagtttgtaattataccatctaactttgaattcagattt
50053106

```

```
Query: 507      gtgtataataagtattttaaatgtgagtcctcttttatttaattagttttaaaataatt 561
               | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
Sbjct: 50053105 gagtataat---tattttaaatgcgagtcctgttttacttaagtagtttaattaatt
50053054
```

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 542 ttttaattagtttaataatt 561
 |||||

Sbjct: 5042674 ttttaattagttttaataatt 5042693

Score = 38.2 bits (19), Expect = 4.8
 Identities = 19/19 (100%)
 Strand = Plus / Minus

Query: 857 ttaacatataagtatcgat 875
 |||||
 Sbjct: 10892121 ttaacatataagtatcgat 10892103

Score = 38.2 bits (19), Expect = 4.8
 Identities = 28/31 (90%)
 Strand = Plus / Plus

Query: 1364 ttgcactactgcatgggcctggcgacccta 1394
 |||||
 Sbjct: 45596588 ttgcactatagcatgggcctggcacacccta 45596618

Score = 38.2 bits (19), Expect = 4.8
 Identities = 25/27 (92%)
 Strand = Plus / Minus

Query: 772 attgtggcaatgtaacacctggacttt 798
 |||||
 Sbjct: 50045424 attgtggcaatataacgcctggacttt 50045398

>[gb|CM000853.1](#) Glycine max chromosome 20, whole genome shotgun sequence
 Length = 46773167

Score = 228 bits (115), Expect = 2e-57
 Identities = 179/199 (89%), Gaps = 1/199 (0%)
 Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
 1256
 |||||
 Sbjct: 33344645 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
 33344704

Query: 1257 tatctgatatgtgggtcattggcccatgatattaaattttttttgaaggggtggggc
 1316

```
Query: 505      ttgtgtataataagtattttaaatgtgagtcctcttttatTTtaattagtttaataaatt 561
                ||||||      ||||||||||||||||||||||||||||| |||| | ||||| ||||| |||||
Sbjct: 33344244 ttgtgt---ataagtattttaaatgtgagtcctgttttgTTtaattagcttaataaatt
33344297
```

Score = 99.6 bits (50), Expect = 2e-18
Identities = 71/78 (91%)
Strand = Plus / Plus

Query: 339 ggaaaaatacatagaaaaagaggggaacaaaattgttaaccctccatatgtacagggtttta
398
 |||||
Sbjct: 33344089 ggaaaaatacatagaagaagaggggaacaaaattgttagcttcccaaagtacagggtttca
33344148

Query: 399 gcctcaattttacccatt 416
 |||||
Sbjct: 33344149 gcctcaattttacccatt 33344166

Score = 91.7 bits (46), Expect = 4e-16
Identities = 64/70 (91%)
Strand = Plus / Plus

Query: 633 ttacttaagttagtaatagtagagtgatgtttgatgaattaaacttaagattgggttgaag
692
 |||||
Sbjct: 24441084 ttacttaagttagtcatagtacaatgatatttgattaattaaacttaagtttgggttgaag
24441143

Query: 693 ttattgatct 702
 |||||
Sbjct: 24441144 ttattgatct 24441153

Score = 91.7 bits (46), Expect = 4e-16
Identities = 68/74 (91%), Gaps = 1/74 (1%)
Strand = Plus / Plus

Query: 62 ggacaattttgatttctgggttaatgggtgtattaaaaatatcagaaaactttcaaatatc
121
 |||||
Sbjct: 33351821 ggacaactttgacttctgggttatgggtgtactaaaa-tatcagaaaactttcaaatatc
33351879

Query: 122 tcgagcaggcagtt 135
 | |||||
Sbjct: 33351880 ttgagcaggcagtt 33351893

Score = 91.7 bits (46), Expect = 4e-16
Identities = 65/70 (92%), Gaps = 1/70 (1%)
Strand = Plus / Plus

Query: 63 gacaattttgatttctgggtaatgggtgtattaaaaatatcagaaaactttcaaatatct
122
 ||||| ||||||||||||||| ||||||| ||||| |||||||||||||||||||||
Sbjct: 33358670 gacaactttgatttctgggttatgggtgtgttaaaa-tatcagaaaactttcaaatatct
33358728

Query: 123 cgagcaggca 132
 |||||
Sbjct: 33358729 tgagcaggca 33358738

Score = 91.7 bits (46), Expect = 4e-16
Identities = 65/70 (92%), Gaps = 1/70 (1%)
Strand = Plus / Plus

Query: 62 ggacaattttgatttctgggtaatgggtgtattaaaaatatcagaaaactttcaaatatc
121
 ||||| ||||||||||||||| ||||||| ||||| |||||||||||||||||||||
Sbjct: 33362908 ggacaactttgatttctgggttatgggtgtcttaaaa-tatcagaaaactttcaaatatc
33362966

Query: 122 tcgagcaggc 131
 | |||||
Sbjct: 33362967 ttgagcaggc 33362976

Score = 77.8 bits (39), Expect = 6e-12
Identities = 66/75 (88%), Gaps = 5/75 (6%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggttaagatcaagtgtagtatctgttcttatcagtttaa
1256
 ||||| ||||||||||||||| ||||||| ||||| |||||||||||||||||
Sbjct: 38883042 tcatagctttctcggccttttggttaggatcaagtgtagta-----tcttatcagtttag
38883096

Query: 1257 tatctgatatgtggg 1271
 ||| |||||||
Sbjct: 38883097 tatttgatatgtggg 38883111

Score = 73.8 bits (37), Expect = 9e-11
 Identities = 50/53 (94%), Gaps = 1/53 (1%)
 Strand = Plus / Plus

Query: 650 agtagagtgatgtttgatgaattaaacttaagattgggttgaagttattgatct 702
 ||||| ||||||||||||||| ||||||||||||||| |||||||||||||||
 Sbjct: 33344385 agtatagtgatgtttgattaattaaacttaag-ttgggttgaagttattgatct
 33344436

Score = 69.9 bits (35), Expect = 1e-09
 Identities = 52/57 (91%), Gaps = 3/57 (5%)
 Strand = Plus / Plus

Query: 4 ctgaagaagatcaagtgtgtgaaccaaagtgaaaataatgtttagaagccaacacag 60
 ||||| ||||||||||||||| ||||||||||||||| ||||||| |||||||||||||||
 Sbjct: 33351744 ctgaacaagatcaagtgtgtgaaccaaagtgaa---aatgttcagaagccaacacag
 33351797

Score = 65.9 bits (33), Expect = 2e-08
 Identities = 61/69 (88%), Gaps = 1/69 (1%)
 Strand = Plus / Plus

Query: 448 tcagaaccagagtttgtaattcagcttgta-tcgtaccatctaataatcttagtcaaattt
 506
 ||||||| ||||||||||||||| ||||| | ||||||||||| | ||| |||||||
 Sbjct: 33359234 tcagaacctgagtttgtaattcagtttgtaattgtaccatctaactttttattcaaattt
 33359293

Query: 507 gtgtataat 515
 |||||||
 Sbjct: 33359294 gtgtataat 33359302

Score = 63.9 bits (32), Expect = 8e-08
 Identities = 49/54 (90%), Gaps = 3/54 (5%)
 Strand = Plus / Plus

Query: 7 aagaagatcaagtgtgtgaaccaaagtgaaaataatgtttagaagccaacacag 60
 ||||||| ||||||||||||||| ||||||| |||||||||||||||
 Sbjct: 33362834 aagaagatcaagtgtgtgaaccaaagtg---ctaagtgttcagaagccaacacag
 33362884

Score = 60.0 bits (30), Expect = 1e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 757 ttgttttgtgactgaattgtggcaatgtaacacctggacttt 798
 |||||
Sbjct: 33363798 ttgttttgtgactgaattgtggcaatataacggctggacttt 33363839

Score = 58.0 bits (29), Expect = 5e-06
Identities = 44/49 (89%)
Strand = Plus / Plus

Query: 563 gaatacaattggcaaattgggcacttcaactataattagtgaattgattt 611
 |||||
Sbjct: 33344315 gaatacaattgataaatgggcacgtcaattatagttagtgaattgattt 33344363

Score = 58.0 bits (29), Expect = 5e-06
Identities = 38/41 (92%)
Strand = Plus / Plus

Query: 757 ttgttttgtgactgaattgtggcaatgtaacacctggactt 797
 |||||
Sbjct: 33359460 ttgttttgtgactgaattgtggcaatataacgcgtggactt 33359500

Score = 58.0 bits (29), Expect = 5e-06
Identities = 50/57 (87%)
Strand = Plus / Plus

Query: 283 tcatatcagctgagttgcagacttagctgctagcatttcacgttgtgaatgcaagag 339
 |||||
Sbjct: 33363218 tcatatcagttgagttgcagacttggtgcatcatatctcgttgtgaatgaaagag
33363274

Score = 56.0 bits (28), Expect = 2e-05
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 4 ctgaagaagatcaagtgtgtgaaccaaagtgaaaat 39

```
          ||||| ||||||||||||||||||||| |||||
Sbjct: 33358592 ctgaacaagatcaagtgtgtgaaccaaagtcaaaat 33358627
```

Score = 52.0 bits (26), Expect = 3e-04
Identities = 29/30 (96%)
Strand = Plus / Plus

```
Query: 338      aggaaaaatacatagaaaaagagggaacaa 367
              ||||||||||| |||||||||||||||||
Sbjct: 33359137 aggaaaaatacttagaaaaagagggaacaa 33359166
```

Score = 52.0 bits (26), Expect = 3e-04
Identities = 32/34 (94%)
Strand = Plus / Plus

```
Query: 1362      tcttgactactgcatgggcctggcgccaccctac 1395
              ||||||||||| |||||||||||||||||
Sbjct: 38883185 tcttgactattgcatgggcctggtgcaccctac 38883218
```

Score = 50.1 bits (25), Expect = 0.001
Identities = 56/65 (86%), Gaps = 1/65 (1%)
Strand = Plus / Minus

```
Query: 63      gacaattttgatttctggttaatgggtgtattaaaaatatcagaaaactttcaaatatct
122
              ||||||||||| || ||||| ||||| | ||||||| ||||||||||||||||||| |||||
Sbjct: 942192 gacaattttgagttttggtttatgggattcttaaaa-tatcagaaaactttcaattatct
942134
```

```
Query: 123      cgagc 127
              ||||
Sbjct: 942133 tgagc 942129
```

Score = 50.1 bits (25), Expect = 0.001
Identities = 48/55 (87%), Gaps = 3/55 (5%)
Strand = Plus / Plus

```
Query: 5      tgaagaagatcaagtgtgtgaaccaaagtgaaaataatgtttagaagccaacaca 59
              |||||||||||||||| ||| ||||||||||| || ||||||| |||||||||||||||||
```

Sbjct: 33348059 tgaagaagatcaagtttgtaaaccaaagt---aaaaatgttcagaagccaacaca
33348110

Score = 48.1 bits (24), Expect = 0.005
Identities = 55/64 (85%), Gaps = 1/64 (1%)
Strand = Plus / Plus

Query: 68 ttttgatttctgggtaaatgggtgtattaaaaatatcagaaaactttcaaatatctcgagc
127

|||||
Sbjct: 33348140 ttttgatttctgggttatgggtatgatgaaa-tatcagaaaaccttgaaatatcttgagc
33348198

Query: 128 aggc 131
||||
Sbjct: 33348199 aggc 33348202

Score = 48.1 bits (24), Expect = 0.005
Identities = 42/48 (87%)
Strand = Plus / Plus

Query: 514 ataagtatttaaagtgtgagtcctcttttatttaattagtttaaataatt 561
|||||
Sbjct: 33363505 ataattatttaaagtgtgagtcagttttacttaagtagtttaattaatt 33363552

Score = 48.1 bits (24), Expect = 0.005
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 683 ttggttgaagttattgatctcactggatccat 714
|||||
Sbjct: 33363680 ttggttgaagttattgatgtcactgtatccat 33363711

Score = 42.1 bits (21), Expect = 0.31
Identities = 41/47 (87%), Gaps = 3/47 (6%)
Strand = Plus / Plus

Query: 495 ttagtcaaatttgtgtataataagtattttaaagtgtgagtcctctttta 541
|||||
Sbjct: 33352416 ttagtcaaatttgtgtatagt---tattttaaagtgcgagtcctgtttta 33352459

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaattttattttttgaaggggtggggcc
1317

Sbjct: 1802695 atctgatacgtgagtcattgggctcacatgatattaaattaatttttttaaaggggaagagcc
 1802754

Query: 1318 tgacatagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgcat
 1377

|||||
 Sbjct: 1802755 catcatagtagcttgcta-ttgggggtttttaagtgtcgccctatttcttgactacagtat
 1802813

Query: 1378 gggcctggcgcaccctac 1395
 |||||
 Sbjct: 1802814 aggcctggcacaccctac 1802831

Score = 50.1 bits (25), Expect = 0.001
 Identities = 46/53 (86%)
 Strand = Plus / Minus

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaatttattttttgaaggg 1310
 |||||
 Sbjct: 28079029 atctgatacgtgggttattggcccatgttatattaaatccattttttgaaggg
 28078977

Score = 42.1 bits (21), Expect = 0.31
 Identities = 21/21 (100%)
 Strand = Plus / Plus

Query: 541 atttaattagtttaaataatt 561
 |||||
 Sbjct: 31602620 atttaattagtttaaataatt 31602640

Score = 42.1 bits (21), Expect = 0.31
 Identities = 21/21 (100%)
 Strand = Plus / Plus

Query: 1210 ggccttttggttaagatcaag 1230
 |||||
 Sbjct: 48802367 ggccttttggttaagatcaag 48802387

Score = 40.1 bits (20), Expect = 1.2
 Identities = 20/20 (100%)

Strand = Plus / Plus

Query: 1182 tgaataactttttataatcata 1201
|||||||
Sbjct: 5493175 tgaataactttttataatcata 5493194

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1285 tgatattaaattttatTTTTT 1304
|||||||
Sbjct: 23406629 tgatattaaattttatTTTTT 23406648

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 753 ggTTTTGTTTTgtgactga 771
|||||||
Sbjct: 7531767 ggTTTTGTTTTgtgactga 7531749

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 538 tttatttaattagtttaaa 556
|||||||
Sbjct: 17378322 tttatttaattagtttaaa 17378340

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 660 tgTTTgatgaattaaactt 678
|||||||
Sbjct: 43389412 tgTTTgatgaattaaactt 43389430

>[gb|CM000848.1](#)| Glycine max chromosome 15, whole genome shotgun sequence
 Length = 50939160

Score = 198 bits (100), Expect = 2e-48
 Identities = 109/112 (97%)
 Strand = Plus / Minus

Query: 1195 aatcatcacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagttt
 1254
 |||||
 Sbjct: 47447809 aatcatcacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagttt
 47447750

Query: 1255 aatatctgatatgtgggtcattggcccatgatattaaatttattttttga 1306
 |||||
 Sbjct: 47447749 aatatctgatatgtgggtcattgggtcatgtgatattaaatttattttttga 47447698

Score = 97.6 bits (49), Expect = 6e-18
 Identities = 102/117 (87%), Gaps = 2/117 (1%)
 Strand = Plus / Plus

Query: 1193 ataatcatcacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtt
 1252
 |||||
 Sbjct: 47444577 ataagcatacttttctccaccttttggctaagatcaagtgcataatctgttcttagcagtt
 47444635

Query: 1253 ttaatatctgatatgtgggtcattggcccatgatattaaattt-attttttgaag
 1308
 |||||
 Sbjct: 47444636 tttatatttgatattgtgggccattgggtcaaataaatttaattttttgaag
 47444692

Score = 81.8 bits (41), Expect = 4e-13
 Identities = 56/61 (91%)
 Strand = Plus / Plus

Query: 1205 ttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaatatctgat
 1264
 |||||
 Sbjct: 3480379 ttctcgggtctcttggataagattaagtgtagtagtctgttatttatcagtttaatatctgat
 3480438

Query: 1265 a 1265
 |

Sbjct: 3480439 a 3480439

Score = 48.1 bits (24), Expect = 0.005
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 1203 ctttctcggccttttggctaagatcaagtga 1234
|||| ||| |||||||||||||||||||||
Sbjct: 10534908 ctttgtcgaccttttggctaagatcaagtga 10534939

Score = 44.1 bits (22), Expect = 0.078
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 1228 aagtgtagtatctgttcttatcagtt 1253
|||| |||||||||||||||||||||
Sbjct: 8066923 aagtatagtatctgttcttatcagtt 8066898

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 100 tatcagaaaactttcaa 118
|||||||||||||||||||
Sbjct: 4322351 tatcagaaaactttcaa 4322369

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 340 gaaaaatacatagaaaaag 358
|||||||||||||||||||
Sbjct: 11791023 gaaaaatacatagaaaaag 11791041

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 555 aataattggaataacaattg 573
 |||||
 Sbjct: 24203271 aataattggaataacaattg 24203289

Score = 38.2 bits (19), Expect = 4.8
 Identities = 25/27 (92%)
 Strand = Plus / Plus

Query: 534 ctcttttattttaattagtttaaataat 560
 |||||
 Sbjct: 28865807 ctcttttattttaattagtttaaataat 28865833

Score = 38.2 bits (19), Expect = 4.8
 Identities = 19/19 (100%)
 Strand = Plus / Minus

Query: 660 tgtttgatgaattaaactt 678
 |||||
 Sbjct: 36686919 tgtttgatgaattaaactt 36686901

Score = 38.2 bits (19), Expect = 4.8
 Identities = 22/23 (95%)
 Strand = Plus / Plus

Query: 1422 atgtcatgggtttttattgttct 1444
 |||||
 Sbjct: 39331220 atgtcatgggtttttattgttct 39331242

>[gb|CM000852.1](#)| Glycine max chromosome 19, whole genome shotgun sequence
 Length = 50589441

Score = 192 bits (97), Expect = 1e-46
 Identities = 182/209 (87%), Gaps = 1/209 (0%)
 Strand = Plus / Plus

Query: 1191 ttataatcacacctttctcggccttttggttaagatcaagtgtagtatctgttcttatca
 1250
 |||||
 Sbjct: 48881537 ttatattcacacctttctcggccttttggttaagatcaagtgtagtatctgttcttatca
 48881596

Query: 1251 gtttaatatctgatatgtgggtcattggccacacatgatattaaattttttttgaaggg
1310
|||||
Sbjct: 48881597 gtttaatatctgatatgtggaccattggtccacacgatattaaattactttttttgaaggg
48881656

Query: 1311 tggggcctgacatagtagcttgctactgggggttcttaagcgtagcctgtgtccttgcaact
1370
||| |
Sbjct: 48881657 gaggggccaatacagtagcttgctact-ggggtctctcatgggtcgcccatgtgttgcaact
48881715

Query: 1371 actgcatgggcctggcgcaccctacgatt 1399
| |||
Sbjct: 48881716 attgcttgggcctggcgcaccctccgatt 48881744

Score = 186 bits (94), Expect = 8e-45
Identities = 109/114 (95%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggttaagatcaagtgtagtagtctgttcttatcagtttaa
1256
|||||
Sbjct: 48821239 tcatacctttctcggccttttggttaagatcaagtgtagtagtctgttcttatcagtttaa
48821298

Query: 1257 tatctgatatgtgggtcattggccacacatgatattaaattttttttgaaggg 1310
|||||
Sbjct: 48821299 tatctgatatgtgggtcattggtccacacgatattaaattacttttttaaaggg
48821352

Score = 40.1 bits (20), Expect = 1.2
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 535 tctttttatttaattagtttaaata 558
|||||
Sbjct: 50266349 tctttttatttatttagtttaaata 50266326

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1228 aagtgtagtatctgttctt 1246
 |||||
Sbjct: 7198619 aagtgtagtatctgttctt 7198637

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 888 tttccatatttatgaaaac 906
 |||||
Sbjct: 34414552 tttccatatttatgaaaac 34414534

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 66 aattttgatttctgggtaa 84
 |||||
Sbjct: 40675436 aattttgatttctgggtaa 40675454

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1168 ataaaaaacacatctgaat 1186
 |||||
Sbjct: 42186810 ataaaaaacacatctgaat 42186792

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1047 tctcaattcactcattcat 1065
 |||||
Sbjct: 43138670 tctcaattcactcattcat 43138652

>gb|ACUP01000042.1| Glycine max chromosome 1 GLYMAchr_01_Cont42, whole genome
shotgun

sequence
Length = 41091

Score = 190 bits (96), Expect = 5e-46
Identities = 169/192 (88%), Gaps = 1/192 (0%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat 1257
|||||
Sbjct: 9784 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat 9843

Query: 1258 atctgatatgtgggtcattggccacatgatattaaatttattttttgaaggggtggggcc 1317
|||||
Sbjct: 9844 atctgatatgtggaccattgggtccacacgatattaaatttattttttgagggagaggggtc 9903

Query: 1318 tgacatagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgcat 1377
||
Sbjct: 9904 catcacagtagcttgctact-gggattctcgagcgctcgctcttgtcttgactactgcaa 9962

Query: 1378 gggcctggcgca 1389
|
Sbjct: 9963 gtgcctggcgca 9974

Score = 180 bits (91), Expect = 5e-43
Identities = 103/107 (96%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
1257
|||||
Sbjct: 18602 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
18661

Query: 1258 atctgatatgtgggtcattggccacatgatattaaatttatttttt 1304
|||||
Sbjct: 18662 atctgatatgtggaccattgggtccacacgatattaaatttatttttt 18708

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 65 caattttgatttctgggtta 83

|||||
Sbjct: 10182 caattttgatttctggta 10200

>[gb|CM000834.1](#) Glycine max chromosome 1, whole genome shotgun sequence
Length = 55915595

Score = 190 bits (96), Expect = 5e-46
Identities = 169/192 (88%), Gaps = 1/192 (0%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
1257

|||||
Sbjct: 2811128 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
2811187

Query: 1258 atctgatatgtgggtcattggccacatgatattaaatttttttgaaggggtggggcc
1317

|||||
Sbjct: 2811188 atctgatatgtggaccattgggtccacacgatattaaatttttttgaggagaggggtc
2811247

Query: 1318 tgacatagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgcat
1377

|| |||||
Sbjct: 2811248 catcacagtagcttgctact-gggattctcgagcgtcgctcttgcttgactactgcaa
2811306

Query: 1378 gggcctggcgca 1389

| |||||
Sbjct: 2811307 gtgcctggcgca 2811318

Score = 180 bits (91), Expect = 5e-43
Identities = 103/107 (96%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
1257

|||||
Sbjct: 2819946 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
2820005

Query: 1258 atctgatatgtgggtcattggccacatgatattaaattttttt 1304

|||||
Sbjct: 2820006 atctgatatgtggaccattgggtccacacgatattaaattttttt 2820052

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 420 tgatttattattgaaaagta 439
 |||||
Sbjct: 20857888 tgatttattattgaaaagta 20857907

Score = 40.1 bits (20), Expect = 1.2
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 543 ttaattagtttaaataattggaat 566
 |||||
Sbjct: 43837723 ttaattagttacataattggaat 43837746

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1284 atgatattaaatttattttt 1303
 |||||
Sbjct: 54120731 atgatattaaatttattttt 54120750

Score = 40.1 bits (20), Expect = 1.2
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 537 ttttatttaattagtttaaataattggaatacaatt 572
 |||||
Sbjct: 55381544 ttttatttaattatgttaaataatgtaatatataatt 55381509

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 65 caattttgatttctggtta 83

|||||
 Sbjct: 2811526 caattttgatttcttggtta 2811544

Score = 38.2 bits (19), Expect = 4.8
 Identities = 19/19 (100%)
 Strand = Plus / Plus

Query: 538 tttattttaattagtttaaa 556
 |||||
 Sbjct: 3759740 tttattttaattagtttaaa 3759758

>[gb|CM000841.1](#) Glycine max chromosome 8, whole genome shotgun sequence
 Length = 46995532

Score = 188 bits (95), Expect = 2e-45
 Identities = 169/191 (88%), Gaps = 2/191 (1%)
 Strand = Plus / Minus

Query: 1195 aatcatcacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagttt
 1254
 |||||
 Sbjct: 1382815 aatcatcacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagttt
 1382756

Query: 1255 aatatctgatatgtgggtcattggccacatgatattaaatttattttttgaaggggtggg
 1314
 |||||
 Sbjct: 1382755 aatatctgatatgtggaccattgggttcacacgatattaaattaattttttgagggggaggg
 1382696

Query: 1315 gcctgacatagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactg
 1374
 || |||||
 Sbjct: 1382695 tcc-accacagtagcttgctactggggcctt-tcatgcgctgcccattgtgttgactactg
 1382638

Query: 1375 catgggcctgg 1385
 || |||||
 Sbjct: 1382637 cacgggcctgg 1382627

Score = 176 bits (89), Expect = 8e-42
 Identities = 104/109 (95%)
 Strand = Plus / Minus

Score = 153 bits (77), Expect = 1e-34
Identities = 77/77 (100%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
1257
|||||
Sbjct: 13908144 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
13908085

Query: 1258 atctgatatgtgggtca 1274
|||||
Sbjct: 13908084 atctgatatgtgggtca 13908068

Score = 56.0 bits (28), Expect = 2e-05
Identities = 28/28 (100%)
Strand = Plus / Minus

Query: 1365 tgcactactgcatgggcctggcgaccc 1392
|||||
Sbjct: 1829061 tgcactactgcatgggcctggcgaccc 1829034

Score = 56.0 bits (28), Expect = 2e-05
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 1199 atacctttctcggccttttggctaagatcaagtgtagtat 1238
|||||
Sbjct: 10446722 atacctttctaggccttttggctaagagcatgtgtagtat 10446683

Score = 46.1 bits (23), Expect = 0.020
Identities = 38/43 (88%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatct 1240
|||||
Sbjct: 1829162 catacctttctcagccttttgggctaataattaagtgtattatct 1829120

Score = 46.1 bits (23), Expect = 0.020
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 1228 aagtgtagtatctgttcttatcagtttaatatctg 1262

```
          ||||| | ||||| ||||| |||||
Sbjct: 10379060 aagtgtaggacctgttcttatcagttcaatatctg 10379026
```

Score = 40.1 bits (20), Expect = 1.2
Identities = 32/36 (88%)
Strand = Plus / Minus

```
Query: 1199      atacctttctcggccttttgctaagatcaagtgta 1234
          ||||| ||| ||| ||||| |||||
Sbjct: 10379095 atacctttcttggttttgattaagatcaagtgta 10379060
```

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 1288      tattaaatttattttttgaa 1307
          ||||| ||||| |||||
Sbjct: 31701759 tattaaatttattttttgaa 31701778
```

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 660      tgtttgatgaattaaactt 678
          ||||| ||||| |||||
Sbjct: 19056 tgtttgatgaattaaactt 19074
```

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 1179      atctgaatacttttataat 1197
          ||||| ||||| |||||
Sbjct: 5302133 atctgaatacttttataat 5302151
```

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1161 ttgtcttataaaaaaacaca 1179
 |||||
Sbjct: 10248535 ttgtcttataaaaaaacaca 10248517

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 100 tatcagaaaactttcaaatt 118
 |||||
Sbjct: 14295824 tatcagaaaactttcaaatt 14295806

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 67 attttgatttctgggtaatt 85
 |||||
Sbjct: 14337022 attttgatttctgggtaatt 14337004

Score = 38.2 bits (19), Expect = 4.8
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1364 ttgcactactgcatgggcctggc 1386
 |||||
Sbjct: 42971577 ttgcactactgcaagggcctggc 42971555

Score = 38.2 bits (19), Expect = 4.8
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1364 ttgcactactgcatgggcctggc 1386
 |||||
Sbjct: 42978117 ttgcactactgcaagggcctggc 42978095

Score = 38.2 bits (19), Expect = 4.8
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 534 ctcttttattttaattagtttaaataat 560
|||||
Sbjct: 44324280 ctcttttattttaattaatttaattaat 44324306

>[gb|CM000846.1](#) Glycine max chromosome 13, whole genome shotgun sequence
Length = 44408971

Score = 184 bits (93), Expect = 3e-44
Identities = 105/109 (96%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
1257
|||||
Sbjct: 37062846 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
37062905

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaattttttttga 1306
|||||
Sbjct: 37062906 atctgatatgtgggccattgggtccacacgatattaaatgtattttttga 37062954

Score = 56.0 bits (28), Expect = 2e-05
Identities = 34/36 (94%)
Strand = Plus / Minus

Query: 1242 ttcttatcagtttaatatctgatatgtgggtcattg 1277
|||||
Sbjct: 40184162 ttcttattagtttaatatctgatatgtggatcattg 40184127

Score = 50.1 bits (25), Expect = 0.001
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 1203 ctttctcggccttttggctaagatcaagt 1231
||||
Sbjct: 12179706 ctttgtcggccttttggctaagatcaagt 12179678

Score = 48.1 bits (24), Expect = 0.005
Identities = 39/44 (88%)
Strand = Plus / Plus

Query: 1205 ttctcggccttttggctaagatcaagtgtagtatctgttcttat 1248
 ||||| ||||||||||||||||||||| || || |||||||||||||
Sbjct: 21664790 ttcttggccttttggctaagatcaagcgcattgtctgttcttat 21664833

Score = 44.1 bits (22), Expect = 0.078
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 1228 aagtgtagtatctgttcttatcagtt 1253
 ||||| |||||||||||||||||||||
Sbjct: 31101874 aagtatagtatctgttcttatcagtt 31101899

Score = 42.1 bits (21), Expect = 0.31
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1274 attggcccatgatattaaatttattttttgaaggg 1310
 ||||||||| |||||||||||||| |||| |||||||||
Sbjct: 3207022 attggcccaagtgatattaaattcatttcttgaaggg 3206986

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 343 aaatacatagaaaaagaggg 362
 |||||||||||||||||||||
Sbjct: 11008408 aaatacatagaaaaagaggg 11008389

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 89 tgtattaaaaaatatcagaaa 108
 |||||||||||||||||||||
Sbjct: 35196522 tgtattaaaaaatatcagaaa 35196541

Score = 38.2 bits (19), Expect = 4.8
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 335 aagaggaaaaatacatagaaaaa 357
||||| ||||||||||||||||
Sbjct: 1730997 aagatgaaaaatacatagaaaaa 1731019

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 540 tattttaattagtttaaata 558
||||||||||||||
Sbjct: 5500092 tattttaattagtttaaata 5500074

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1286 gatattaaatttatttttt 1304
||||||||||||||
Sbjct: 32295140 gatattaaatttatttttt 32295158

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 576 aaatgggcacttcaactat 594
||||||||||||||
Sbjct: 37340202 aaatgggcacttcaactat 37340220

Score = 38.2 bits (19), Expect = 4.8
Identities = 37/43 (86%)
Strand = Plus / Minus

Query: 1044 tcttctcaattcactcattcatcaaaatcagcagttttatgca 1086

```

      |||| ||||||||| ||||| | ||| |||||
Sbjct: 42548733 tcttttcaattcactcatttgtcaaaattaccagtgttatgca 42548691

```

>[gb|CM000850.1](#) Glycine max chromosome 17, whole genome shotgun sequence
Length = 41906774

Score = 178 bits (90), Expect = 2e-42
Identities = 108/114 (94%)
Strand = Plus / Plus

```

Query: 1197      tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256

```

```

      |||||||||
Sbjct: 2937954 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
2938013

```

```

Query: 1257      tatctgatatgtgggtcattggcccacatgatattaaatttattttttgaaggg 1310
      |||||||||

```

```

Sbjct: 2938014 tatctgatatgtgggccattggtccacacgatattaaattacttttttaaggg 2938067

```

Score = 178 bits (90), Expect = 2e-42
Identities = 108/114 (94%)
Strand = Plus / Plus

```

Query: 1197      tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256

```

```

      |||||||||
Sbjct: 2941445 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
2941504

```

```

Query: 1257      tatctgatatgtgggtcattggcccacatgatattaaatttattttttgaaggg 1310
      |||||||||

```

```

Sbjct: 2941505 tatctgatatgtgggccattggtccacacgatattaaattacttttttaaggg 2941558

```

Score = 174 bits (88), Expect = 3e-41
Identities = 97/100 (97%)
Strand = Plus / Minus

```

Query: 1197      tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256

```

```

      |||||||||
Sbjct: 2537281 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
2537222

```

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaatt 1296
 ||||||||||||||| ||||| ||||| |||||||||||
 Sbjct: 2537221 tatctgatatgtgggccattgggtccacacgatattaaatt 2537182

Score = 174 bits (88), Expect = 3e-41
 Identities = 97/100 (97%)
 Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
 1256
 ||||||||||||||| ||||||| ||||| |||||||||||
 Sbjct: 3008773 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
 3008714

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaatt 1296
 ||||||||||||||| ||||| ||||| |||||||||||
 Sbjct: 3008713 tatctgatatgtgggccattgggtccacacgatattaaatt 3008674

Score = 170 bits (86), Expect = 5e-40
 Identities = 107/114 (93%)
 Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
 1256
 ||||||||||||||| ||||||| ||||| |||||||||||
 Sbjct: 3003317 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
 3003258

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaattttatTTTTgaaggg 1310
 ||||||||||||||| ||||| ||||| ||||||||||| ||||| |||||
 Sbjct: 3003257 tatctgatatgtggaccattgggtccacacgatattaaattactTTTTtaaggg 3003204

Score = 168 bits (85), Expect = 2e-39
 Identities = 103/109 (94%)
 Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagttta
 1257
 ||||||||||||||| ||||||| ||||| |||||||||||
 Sbjct: 33778443 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagttta
 33778502

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaatttattttttga 1306
 ||||||||||||| ||||| |||| | |||||||||||||||||
Sbjct: 33778503 atctgatatgtggaccattggttcacacggtattaaatttattttttga 33778551

Score = 44.1 bits (22), Expect = 0.078
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttg 1218
 |||||||||||||||||
Sbjct: 6509077 tcatacctttctcggccttttg 6509056

Score = 42.1 bits (21), Expect = 0.31
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1236 tatctgttcttatcagtttaa 1256
 |||||||||||||||||
Sbjct: 10420262 tatctgttcttatcagtttaa 10420242

Score = 40.1 bits (20), Expect = 1.2
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 335 aagaggaaaaatacatagaaaaag 358
 ||||||||||||| |||||||||
Sbjct: 11865708 aagaggaaaaatccatagaaaaag 11865731

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1289 attaaatttattttttgaag 1308
 |||||||||||||||||
Sbjct: 18140927 attaaatttattttttgaag 18140908

Score = 40.1 bits (20), Expect = 1.2

Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1203 ctttctcggccttttggctaagat 1226
||||| |||||||||
Sbjct: 24018186 ctttcttggccttttggctaagat 24018163

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 510 tataataagtattttaaatg 528
|||||||
Sbjct: 3948135 tataataagtattttaaatg 3948153

Score = 38.2 bits (19), Expect = 4.8
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1282 acatgatatttaaattttatttttt 1304
|||||||
Sbjct: 14684342 acatgatatttaaatttttttttt 14684320

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1290 tttaaatttatttttttgaag 1308
|||||||
Sbjct: 18875136 tttaaatttatttttttgaag 18875154

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1284 atgatatttaaattttatttt 1302
|||||||
Sbjct: 19502204 atgatatttaaattttatttt 19502222

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 538 tttattttaattagttttaa 556
|||||
Sbjct: 33660393 tttattttaattagttttaa 33660375

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1287 atattaaatttattttttg 1305
|||||
Sbjct: 34948758 atattaaatttattttttg 34948776

>[gb|CM000835.1](#) Glycine max chromosome 2, whole genome shotgun sequence
Length = 51656713

Score = 176 bits (89), Expect = 8e-42
Identities = 104/109 (95%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
1257
|||||
Sbjct: 3481683 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
3481624

Query: 1258 atctgatatgtgggtcattggccacatgatattaaatttattttttga 1306
|||||
Sbjct: 3481623 atctgatatgtggaccattggttcacacgatattaaatttattttttga 3481575

Score = 163 bits (82), Expect = 1e-37
Identities = 106/114 (92%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256
|||||
Sbjct: 26013635 tcatgcctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagattaa
26013694

Query: 1257 tatctgatatgtgggtcattggcccatgatattaaattttttttgaaggg 1310
 ||||| || ||||| ||||| |||||
Sbjct: 26013695 tatctgatatgtgggtcaatgattcacatgatattaaattacttttttgaaggg
26013748

Score = 97.6 bits (49), Expect = 6e-18
Identities = 64/69 (92%)
Strand = Plus / Minus

Query: 1202 cctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaatatct
1261
 ||||| ||||| ||||| |||||
Sbjct: 3479030 cctttctcggccttttggtaaagatcaagtgtagtatttgttcttattagtttaagtct
3478971

Query: 1262 gatatgtgg 1270
 |||||
Sbjct: 3478970 gatatgtgg 3478962

Score = 65.9 bits (33), Expect = 2e-08
Identities = 48/53 (90%)
Strand = Plus / Minus

Query: 650 agtagagtgatgtttgatgaattaaacttaagattgggtgaagttattgatct 702
 ||||| || ||||| ||||| ||||| |||||
Sbjct: 37818713 agtagagagatttttgattaattaaacttaatggtggtgaagttattgatct
37818661

Score = 61.9 bits (31), Expect = 3e-07
Identities = 61/71 (85%)
Strand = Plus / Plus

Query: 1236 tatctgttcttatcagtttaatatctgatatgtgggtcattggcccatgatattaaat
1295
 ||||| || ||||| ||||| ||||| || |||||
Sbjct: 8550527 tatctgtttttattagtttaatatctgatatgtgaaccattgggtcacacgatactaaat
8550586

Query: 1296 ttatttttttga 1306
 | |||||
Sbjct: 8550587 taatttttttga 8550597

Score = 60.0 bits (30), Expect = 1e-06
Identities = 30/30 (100%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggaagatc 1227
 |||||
Sbjct: 3480006 catacctttctcggccttttggaagatc 3479977

Score = 46.1 bits (23), Expect = 0.020
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 542 ttttaattagtttaaataattggaatacaatt 572
 |||||
Sbjct: 30941670 ttttaataagtttaactaattggaatacaatt 30941640

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1292 aaattttattttttgaaggggt 1311
 |||||
Sbjct: 42907522 aaattttattttttgaaggggt 42907503

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1286 gatattaaattttattttttt 1304
 |||||
Sbjct: 42796768 gatattaaattttattttttt 42796786

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1289 attaaattttatTTTTTgaa 1307
|||||
Sbjct: 49531920 attaaattttatTTTTTgaa 49531902

>[gb|CM000838.1](#) Glycine max chromosome 5, whole genome shotgun sequence
Length = 41936504

Score = 168 bits (85), Expect = 2e-39
Identities = 103/109 (94%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
1257
|||||
Sbjct: 36280822 catacctttctcggccttttggctaagatcaaagtgtagtatctgttcttatccgtttaaat
36280763

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaatttattttttga 1306
|||||
Sbjct: 36280762 atctgatatgtgggtcattgggtcacacgataataaatttattttttga 36280714

Score = 161 bits (81), Expect = 5e-37
Identities = 102/109 (93%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
1257
|||||
Sbjct: 40623005 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
40623064

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaatttattttttga 1306
|||||
Sbjct: 40623065 atctgatatgtggaccatcggttcacacgatattaaattaattttttga 40623113

Score = 56.0 bits (28), Expect = 2e-05
Identities = 31/32 (96%)
Strand = Plus / Plus

Query: 1203 ctttctcggccttttggctaagatcaagtgtgta 1234
|||||
Sbjct: 18421847 ctttctcggccttttggctgagatcaagtgtgta 18421878

Score = 42.1 bits (21), Expect = 0.31
 Identities = 27/29 (93%)
 Strand = Plus / Plus

Query: 1364 ttgcactactgcatgggcctggcgacccc 1392
 ||||| ||| |||||
 Sbjct: 40623170 ttgcactattgcacgggcctggcgacccc 40623198

Score = 38.2 bits (19), Expect = 4.8
 Identities = 25/27 (92%)
 Strand = Plus / Minus

Query: 534 ctcttttatttaattagtttaaataat 560
 ||||| |||||
 Sbjct: 4394340 ctcttttatttaatttaatttaataat 4394314

Score = 38.2 bits (19), Expect = 4.8
 Identities = 25/27 (92%)
 Strand = Plus / Plus

Query: 1203 ctttctcggccttttggctaagatcaa 1229
 ||||| |||||
 Sbjct: 41815531 ctttctctaccttttggctaagatcaa 41815557

>[gb|CM000836.1](#) Glycine max chromosome 3, whole genome shotgun sequence
 Length = 47781076

Score = 167 bits (84), Expect = 8e-39
 Identities = 129/144 (89%)
 Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
 1257
 |||||
 Sbjct: 30967764 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
 30967823

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaattttttttgaaggggtggggcc
 1317
 || ||||| ||||| ||| ||||| ||||| ||| |||
 Sbjct: 30967824 atttgatattgtggaccattgggtcacacgatattaaattaattttttgagggggagggtc
 30967883

Query: 1197 tcatacctttctcggccttttggttaagatcaagtgtagtatctgttcttatcagtttaa
1256

|||||

Sbjct: 41572420 tcatacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaa
 41572479

Query: 1257 tatctgatatgtgggtcattggccacatgatattaaattttttgaaggg 1310
 |||||
 Sbjct: 41572480 tatctgatatgtggatcatcggtccacacggtattaaattacttttttaaaggg
 41572533

Score = 91.7 bits (46), Expect = 4e-16
 Identities = 61/66 (92%)
 Strand = Plus / Minus

Query: 637 ttaagttagtaatagtagagtgatggttgatgaattaaacttaagattggttgaagttat
 696
 |||||
 Sbjct: 29606647 ttaagttagtcacagtagagtgatatttgattaattaaacttaagttggttgaagttat
 29606588

Query: 697 tgatct 702
 |||||
 Sbjct: 29606587 tgatct 29606582

Score = 60.0 bits (30), Expect = 1e-06
 Identities = 42/46 (91%)
 Strand = Plus / Minus

Query: 1215 tttggctaagatcaagtgtagtagtctgttcttatcagtttaatatc 1260
 |||||
 Sbjct: 9433994 tttggcttagaacaatgtaatatctgttcttatcagtttaatatc 9433949

Score = 42.1 bits (21), Expect = 0.31
 Identities = 21/21 (100%)
 Strand = Plus / Minus

Query: 1284 atgatattaaattttttttt 1304
 |||||
 Sbjct: 42960674 atgatattaaattttttttt 42960654

Score = 38.2 bits (19), Expect = 4.8
 Identities = 22/23 (95%)

Query: 1197 tcatacctttctcggccttttggttaagatcaagtgtagtatctgttcttatcagtttaa
1256

|||||

Sbjct: 6336509 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
 6336568

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaatttattttttgaaggg 1310
 |||||
 Sbjct: 6336569 tatctgatatgtggaccattggttcacacgatattaaattacttttttaaaggg 6336622

Score = 63.9 bits (32), Expect = 8e-08
 Identities = 35/36 (97%)
 Strand = Plus / Minus

Query: 1199 atacctttctcggccttttggctaagatcaagtgt 1234
 |||||
 Sbjct: 33368741 atacctttctcggccatttggctaagatcaagtgt 33368706

Score = 42.1 bits (21), Expect = 0.31
 Identities = 30/33 (90%)
 Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaag 1230
 |||||
 Sbjct: 7296172 catacctttctctaccttttggctaagttcaag 7296204

Score = 40.1 bits (20), Expect = 1.2
 Identities = 20/20 (100%)
 Strand = Plus / Plus

Query: 1286 gatattaaatttattttttg 1305
 |||||
 Sbjct: 7117624 gatattaaatttattttttg 7117643

Score = 38.2 bits (19), Expect = 4.8
 Identities = 19/19 (100%)
 Strand = Plus / Plus

Query: 504 tttgtgtataataagtatt 522
 |||||
 Sbjct: 4273993 tttgtgtataataagtatt 4274011

>[gb|GG730463.1](#) Glycine max unplaced genomic scaffold GLYMAScaffold_247,
whole genome

shotgun sequence
Length = 19143

Score = 159 bits (80), Expect = 2e-36
Identities = 128/144 (88%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat 1257
|||||||
Sbjct: 6435 catacctttcttggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat 6376

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaatttattttttgaaggggtggggcc 1317
|| ||||| ||||| ||| ||||| ||||| ||||| ||| |||
Sbjct: 6375 atttgatatgtggaccattgggtcacacgatattaaattaattttttgagggggagggtc 6316

Query: 1318 tgacatagtagcttgctactgggg 1341
|||||||
Sbjct: 6315 cattatagtagcttgctactgggg 6292

>[gb|CM000851.1](#) Glycine max chromosome 18, whole genome shotgun sequence
Length = 62308140

Score = 123 bits (62), Expect = 1e-25
Identities = 114/130 (87%), Gaps = 1/130 (0%)
Strand = Plus / Plus

Query: 1212 ccttttggctaagatcaagtgtagtatctgttcttatcagtttaatatctgatatgtggg
1271
|||||||
Sbjct: 9627275 ccttttggctaagatcaagtgtagtatctgttcttgccagtttaatatctgatatgtggg
9627334

Query: 1272 tcattggcccacatgatattaaatttattttttgaaggggtggggcctgacatagtagctt
1331
||||| ||||| ||||| ||| ||||| ||||| ||| |||
Sbjct: 9627335 ccattgggttcacatgatattaaaattacttttt-aagggtagtgtccaacacagtagctt
9627393

Query: 1332 gctactgggg 1341
|||| ||||
Sbjct: 9627394 gctattgggg 9627403

Score = 58.0 bits (29), Expect = 5e-06

Identities = 36/37 (97%), Gaps = 1/37 (2%)
Strand = Plus / Plus

Query: 1199 atacctttctcggccttttggctaagatcaagtgtag 1235
 ||||||||||||||||||| ||||||||||||||||
Sbjct: 60372962 atacctttctcggcctttt-gctaagatcaagtgtag 60372997

Score = 50.1 bits (25), Expect = 0.001
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1199 atacctttctcggccttttggctaagatcaagtgtag 1235
 |||||||| | ||||||||||||||||||| ||||||||
Sbjct: 4972785 atacctttataggccttttggctaagattaagtgtag 4972821

Score = 42.1 bits (21), Expect = 0.31
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 1203 ctttctcggccttttggctaagatcaagt 1231
 |||||| ||||||||||||||||||| ||||||
Sbjct: 2422166 ctttcttggccttttggctaaggtaagt 2422194

Score = 42.1 bits (21), Expect = 0.31
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 1199 atacctttctcggccttttggctaagatcaagt 1231
 |||||||||||| |||||||||||| || ||||||||
Sbjct: 10217111 atacctttctcagccttttggccaatatcaagt 10217079

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1283 catgatattaaatttattt 1301
 |||||||||||||||||||
Sbjct: 562537 catgatattaaatttattt 562555

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1289 attaaatttattttttgaa 1307
|||||||
Sbjct: 2715459 attaaatttattttttgaa 2715477

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 522 ttaaatgtgagtctctttt 540
|||||||
Sbjct: 8764038 ttaaatgtgagtctctttt 8764020

Score = 38.2 bits (19), Expect = 4.8
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1051 aattcactcattcatcaaaatca 1073
||||| |||||||
Sbjct: 10774310 aattcaatcattcatcaaaatca 10774288

Score = 38.2 bits (19), Expect = 4.8
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1213 cttttggctaagatcaagtgtag 1235
||||||| |||||||
Sbjct: 20725233 cttttggccaagatcaagtgtag 20725211

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1287 atattaaatttattttttg 1305
|||||||

Sbjct: 51289113 atattaaattttatTTTTTg 51289095

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1287 atattaaattttatTTTTTg 1305
|||||
Sbjct: 51321115 atattaaattttatTTTTTg 51321097

>[gb|CM000842.1](#) Glycine max chromosome 9, whole genome shotgun sequence
Length = 46843750

Score = 109 bits (55), Expect = 2e-21
Identities = 73/78 (93%), Gaps = 2/78 (2%)
Strand = Plus / Plus

Query: 1195 aatcatacctttctcggcctttt--ggctaagatcaagtgtagtagtctgttcttatcagt
1252
|||||
Sbjct: 17616161 aatcatacctttctcggccttttttggtctaaaattaagtgtagtagtattgttcttatcagt
17616220

Query: 1253 ttaatatctgatatgtgg 1270
|||||
Sbjct: 17616221 ttaatatctgatatgtgg 17616238

Score = 56.0 bits (28), Expect = 2e-05
Identities = 31/32 (96%)
Strand = Plus / Plus

Query: 1203 ctttctcggccttttggtctaaagatcaagtgt 1234
||||
Sbjct: 2111183 ctttatcggccttttggtctaaagatcaagtgt 2111214

Score = 42.1 bits (21), Expect = 0.31
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 419 ttgatttattattgaaaagta 439
|||||

Sbjct: 13174662 ttgattttattattgaaaagta 13174682

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 343 aaatacatagaaaaagaggg 362
|||||
Sbjct: 18089873 aaatacatagaaaaagaggg 18089854

Score = 40.1 bits (20), Expect = 1.2
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 93 ttaaaaaatatcagaaaactttcaaatat 120
|||||
Sbjct: 26158735 ttaaatatatcagaaatctttcaaatat 26158708

>[gb|CM000849.1](#)| Glycine max chromosome 16, whole genome shotgun sequence
Length = 37397385

Score = 56.0 bits (28), Expect = 2e-05
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 653 agagtgatgtttgatgaattaaacttaagattggttgaagttat 696
|||||
Sbjct: 36337246 agagtgacgtttgattaattaaacttaagttttggttgaagttat 36337203

Score = 40.1 bits (20), Expect = 1.2
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 1199 atacctttctcggccttttggctaagat 1226
|||||
Sbjct: 1337919 atacttttctcggccttttggcaaagat 1337946

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)

Strand = Plus / Plus

```
Query: 535      tcttttattttaattagttt 553
              |||||
Sbjct: 18911611 tcttttattttaattagttt 18911629
```

>[gb|GG730590.1](#)| Glycine max unplaced genomic scaffold GLYMA scaffold_615,
whole genome

shotgun sequence
Length = 8255

Score = 46.1 bits (23), Expect = 0.020
Identities = 23/23 (100%)
Strand = Plus / Minus

```
Query: 1210 ggccttttggctaagatcaagt 1232
              |||||
Sbjct: 6366 ggccttttggctaagatcaagt 6344
```

>[gb|GG730372.1](#)| Glycine max unplaced genomic scaffold GLYMA scaffold_48, whole
genome

shotgun sequence
Length = 139886

Score = 44.1 bits (22), Expect = 0.078
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 1210      ggccttttggctaagatcaagt 1231
              |||||
Sbjct: 127405 ggccttttggctaagatcaagt 127426
```

>[gb|CM000845.1](#)| Glycine max chromosome 12, whole genome shotgun sequence
Length = 40113140

Score = 44.1 bits (22), Expect = 0.078
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 1283      catgatatttaaatttatttttt 1304
              |||||
Sbjct: 7623875 catgatatttaaatttatttttt 7623896
```

Score = 38.2 bits (19), Expect = 4.8

Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1290 ttaaatttattttttgaag 1308
 |||||
Sbjct: 2623670 ttaaatttattttttgaag 2623688

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 543 ttaattagtttaaataatt 561
 |||||
Sbjct: 4330142 ttaattagtttaaataatt 4330160

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 530 gagtctcttttatttaatt 548
 |||||
Sbjct: 35508190 gagtctcttttatttaatt 35508172

Score = 38.2 bits (19), Expect = 4.8
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 501 aaatttggtgtataataagtatttaa 527
 |||||
Sbjct: 39013359 aaatttggtgtataaaaagtatttaa 39013333

>[gb|ACUP01000226.1](#)| Glycine max chromosome 1 GLYMAchr_01_Cont226, whole
genome shotgun

 sequence
 Length = 836019

Score = 40.1 bits (20), Expect = 1.2
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 420 tgatttattattgaaaagta 439

|||||
Sbjct: 791904 tgatttattattgaaaagta 791923

>[gb|CM000844.1](#) Glycine max chromosome 11, whole genome shotgun sequence
Length = 39172790

Score = 40.1 bits (20), Expect = 1.2
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 348 catagaaaaagaggggaacaaaatt 371
|||||
Sbjct: 8309590 catagaaaaagatggaacaaaatt 8309613

Score = 38.2 bits (19), Expect = 4.8
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 585 cttcaactataattagtgattgattt 611
|||||
Sbjct: 16128390 cttcaactataattagggtttgattt 16128364

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 887 gtttccatatttatgaaaa 905
|||||
Sbjct: 18117196 gtttccatatttatgaaaa 18117178

Score = 38.2 bits (19), Expect = 4.8
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 534 ctcttttattttaattagtttaaataat 560
|||||
Sbjct: 30011179 ctcttttattttaatttaatttaataat 30011153

Score = 38.2 bits (19), Expect = 4.8

Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 506 tgtgtataataagtatttta 524
 |||||||
Sbjct: 36331494 tgtgtataataagtatttta 36331512

>[gb|ACUP01000062.1](#)| Glycine max chromosome 1 GLYMChr_01_Cont62, whole genome
shotgun

 sequence
 Length = 154253

Score = 38.2 bits (19), Expect = 4.8
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 538 tttattttaattagttttaa 556
 |||||||
Sbjct: 29791 tttattttaattagttttaa 29809

Database: ../blastlibs/G_max_Genome
Posted date: Mar 12, 2010 10:36 AM
Number of letters in database: 996,379,823
Number of sequences in database: 1418

Lambda K H
 1.37 0.711 1.31

Gapped
Lambda K H
 1.37 0.711 1.31

Matrix: blastn matrix:1 -3
Gap Penalties: Existence: 5, Extension: 2
Number of Hits to DB: 1,664,759
Number of Sequences: 1418
Number of extensions: 1664759
Number of successful extensions: 263
Number of sequences better than 10.0: 26
Number of HSP's better than 10.0 without gapping: 103
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 0
Number of HSP's gapped (non-prelim): 242
length of query: 1494
length of database: 996,379,823
effective HSP length: 21
effective length of query: 1473
effective length of database: 996,350,045
effective search space: 1467623616285

effective search space used: 1467623616285
T: 0
A: 0
X1: 11 (21.8 bits)
X2: 15 (29.7 bits)
S1: 12 (24.3 bits)
S2: 19 (38.2 bits)

Appendix of Report 102117

BLASTn Search Output of DAS-44406-6 3' Border sequence

BLASTN 2.2.22 [Sep-27-2009]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Database: ../blastlibs/G_max_Genome
1418 sequences; 996,379,823 total letters

Query= DAS-44406-6 3' Border
(1885 letters)

		Score	E
Sequences producing significant alignments:		(bits)	Value
gb CM000839.1 	Glycine max chromosome 6, whole genome shotg...	3673	0.0
gb CM000841.1 	Glycine max chromosome 8, whole genome shotg...	402	e-109
gb CM000844.1 	Glycine max chromosome 11, whole genome shot...	387	e-105
gb CM000840.1 	Glycine max chromosome 7, whole genome shotg...	377	e-102
gb CM000852.1 	Glycine max chromosome 19, whole genome shot...	361	3e-97
gb CM000850.1 	Glycine max chromosome 17, whole genome shot...	349	1e-93
gb CM000849.1 	Glycine max chromosome 16, whole genome shot...	341	3e-91
gb CM000836.1 	Glycine max chromosome 3, whole genome shotg...	323	7e-86
gb CM000843.1 	Glycine max chromosome 10, whole genome shot...	283	6e-74
gb CM000835.1 	Glycine max chromosome 2, whole genome shotg...	248	3e-63
gb CM000834.1 	Glycine max chromosome 1, whole genome shotg...	236	1e-59
gb CM000842.1 	Glycine max chromosome 9, whole genome shotg...	224	5e-56
gb CM000846.1 	Glycine max chromosome 13, whole genome shot...	218	3e-54
gb CM000847.1 	Glycine max chromosome 14, whole genome shot...	194	4e-47
gb CM000848.1 	Glycine max chromosome 15, whole genome shot...	180	7e-43
gb ACUP01000066.1 	Glycine max chromosome 1 GLYMachr_01_Con...	174	4e-41
gb CM000853.1 	Glycine max chromosome 20, whole genome shot...	174	4e-41
gb CM000851.1 	Glycine max chromosome 18, whole genome shot...	174	4e-41
gb CM000837.1 	Glycine max chromosome 4, whole genome shotg...	163	2e-37
gb CM000838.1 	Glycine max chromosome 5, whole genome shotg...	107	8e-21
gb CM000845.1 	Glycine max chromosome 12, whole genome shot...	103	1e-19
gb ACUP01000138.1 	Glycine max chromosome 1 GLYMachr_01_Con...	86	3e-14
gb GG730489.1 	Glycine max unplaced genomic scaffold GLYMAS...	84	1e-13
gb ACUP01000005.1 	Glycine max chromosome 1 GLYMachr_01_Con...	50	0.002
gb GG730349.1 	Glycine max unplaced genomic scaffold GLYMAS...	50	0.002
gb GG730583.1 	Glycine max unplaced genomic scaffold GLYMAS...	44	0.098
gb GG730421.1 	Glycine max unplaced genomic scaffold GLYMAS...	44	0.098
gb GG730408.1 	Glycine max unplaced genomic scaffold GLYMAS...	44	0.098
gb ACUP01000210.1 	Glycine max chromosome 1 GLYMachr_01_Con...	42	0.39
gb ACUP01000200.1 	Glycine max chromosome 1 GLYMachr_01_Con...	42	0.39

gb ACUP01000183.1 	Glycine max chromosome 1	GLYMChr_01_Con...	42	0.39
gb ACUP01000114.1 	Glycine max chromosome 1	GLYMChr_01_Con...	42	0.39
gb ACUP01000101.1 	Glycine max chromosome 1	GLYMChr_01_Con...	42	0.39
gb ACUP01000218.1 	Glycine max chromosome 1	GLYMChr_01_Con...	40	1.5
gb ACUP01000130.1 	Glycine max chromosome 1	GLYMChr_01_Con...	40	1.5
gb ACUP01000080.1 	Glycine max chromosome 1	GLYMChr_01_Con...	40	1.5
gb ACUP01000079.1 	Glycine max chromosome 1	GLYMChr_01_Con...	40	1.5
gb GG731343.1 	Glycine max unplaced genomic scaffold	GLYMAS...	40	1.5
gb GG730983.1 	Glycine max unplaced genomic scaffold	GLYMAS...	40	1.5
gb GG730403.1 	Glycine max unplaced genomic scaffold	GLYMAS...	40	1.5
gb GG730366.1 	Glycine max unplaced genomic scaffold	GLYMAS...	40	1.5
gb GG730348.1 	Glycine max unplaced genomic scaffold	GLYMAS...	40	1.5
gb ACUP01000153.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000144.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000124.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000123.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000122.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000111.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000103.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000102.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000094.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000070.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000059.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000051.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000048.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000046.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000032.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000015.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000009.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000003.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb ACUP01000002.1 	Glycine max chromosome 1	GLYMChr_01_Con...	38	6.1
gb GG731075.1 	Glycine max unplaced genomic scaffold	GLYMAS...	38	6.1
gb GG730711.1 	Glycine max unplaced genomic scaffold	GLYMAS...	38	6.1
gb GG730614.1 	Glycine max unplaced genomic scaffold	GLYMAS...	38	6.1
gb GG730572.1 	Glycine max unplaced genomic scaffold	GLYMAS...	38	6.1
gb GG730486.1 	Glycine max unplaced genomic scaffold	GLYMAS...	38	6.1
gb GG730434.1 	Glycine max unplaced genomic scaffold	GLYMAS...	38	6.1
gb GG730372.1 	Glycine max unplaced genomic scaffold	GLYMAS...	38	6.1
gb GG730365.1 	Glycine max unplaced genomic scaffold	GLYMAS...	38	6.1
gb GG730351.1 	Glycine max unplaced genomic scaffold	GLYMAS...	38	6.1

>[gb|CM000839.1|](#) Glycine max chromosome 6, whole genome shotgun sequence
Length = 50722821

Score = 3673 bits (1853), Expect = 0.0
Identities = 1878/1885 (99%), Gaps = 1/1885 (0%)
Strand = Plus / Minus

Query: 1 gagaacgaatgtcgtgtgatatgtggaacaaggcaacgacaacaacatacatgaatctca
60
 |||||
Sbjct: 18552245 gagaacgaatgtcgtgtgatatgtggaacaaggcaacgacaacaacatacatgaatctca
18552186

Query: 61 caatagagtcggggtcgccgagttgtgatgtaatccatggcatggacatggtggccgatc
120

|||||
Sbjct: 18552185 caatagagtcggggtcgccgagttgtgatgtaatccatggcatggacatggtggccgatc
18552126

Query: 121 gaaaaagaaaaaagaaatgcatgtatatgtgtgaaaatgagagtttttttatccaaata
180

|||||
Sbjct: 18552125 gaaaaagaaaaaagaaatgcatgtatatgtgtgaaaatgagagtttttttatccaaata
18552066

Query: 181 ataaaaaaaaattaattatttacccaaaaaattatttacatgaccgatacgtacactttt
240

|||||
Sbjct: 18552065 ataaaaaaaaattaattatttacccaaaaaattatttacatgaccgatacgtacactttt
18552006

Query: 241 ttccttagttaagaaacaccgatttcttaattacatttttttatacatttagaaattggt
300

|||||
Sbjct: 18552005 ttccttagttaagaaacaccgatttcttaattacatttttttatacatttagaaattggt
18551946

Query: 301 ttccttggaaccgatttcaaaatgttcattttttttttcaaaaccaagttaagaaatcgg
360

|||||
Sbjct: 18551945 ttccttggaaccgatttcaaaatgttcattttttttttcaaaaccaagttaagaaatcgg
18551886

Query: 361 ttccttggaacgacttcttaattgctttttttttgttttggttttaaattggttgta
420

|||||
Sbjct: 18551885 ttccttggaacgacttcttaattgcttttttttt-gtttggttttaaattggttgta
18551827

Query: 421 tttttattttttttgttattaattgtctatatatttggttctgtttaaattgaaaacaata
480

|||||
Sbjct: 18551826 tttttattttttttgttattaattgtctatatatttggttctgtttaaattgaaaacaata
18551767

Query: 481 ttatttttcatatggttgtaattcttaatttcttatgcatattttatgttttatcatttt
540

|||||
Sbjct: 18551766 ttatttttcatatggttgtaattcttaatttcttatgcatattttatgttttatcatttt
18551707

Query: 541 ttaagagttgaaatcctttgtatTTTTTattttatttgattattataataacataattaaac
600

|||||
Sbjct: 18551706 ttaagagttgaaatcctttgtatTTTTTattttatttgattattataataacataattaaac
18551647

Query: 601 aacaacttaattgaaattaaaaaatatatatttaactgacaagttgacttgaactaaaat
660

|||||
Sbjct: 18551646 aacaacttaattgaaattaaaaaatatatatttaactgacaagttgacttgaactaaaat
18551587

Query: 661 atttaaattacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaa
720

|||||
Sbjct: 18551586 atttaaattacaaaatagatatgaaattacaaataatagaacaaaatatttaaatttgaa
18551527

Query: 721 ataatacaacaaaaattttaaaatacaaacatattggcataaaaattaatggtgtggtgcct
780

| |||||
Sbjct: 18551526 acaatacaacaaaaattttaaaatacaaacatattggcataaaaattaatggtgtggtgcct
18551467

Query: 781 gagcctacacaatggggggaatgcgacacatggaacatcattttggtttacctgattctt
840

|||||
Sbjct: 18551466 gagcctacacaatggggggaatgcgacacatggaacatcattttggtttacctgattctt
18551407

Query: 841 ggatatccattttggtgtgtatagagaggagacatgacaacctttagaatttcttttca
900

|||||
Sbjct: 18551406 ggatatccattttggtgtgtatagagaggagacatgacaacctttagaatttcttttca
18551347

Query: 901 tttttgggttggggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcaca
960

|||||
Sbjct: 18551346 tttttgggttggggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcaca
18551287

Query: 961 atttccaagtaatcatttgtacatggttatagatacttttcagcgtatacacaagatgta
1020

|||||
Sbjct: 18551286 atttccaagtaatcatttgtacatggttatagatacttttcagcgtatacacaagatgta
18551227

Query: 1021 tgtagttcctataactcatggtgagcatgcttataaacaacaacatgagaacaaaacatgt
1080

|||||
Sbjct: 18551226 tgtagttcctataactcatggtgagcatgcttataaacaacaacatgagaacaaaacatgt
18551167

Query: 1081 gcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaatttc
1140

|||||
Sbjct: 18551166 gcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaaattc
18551107

Query: 1141 tcactagttgaatctctctctccagttaattgtctcctagactaagaattgtatgtcgca
1200

|||||
Sbjct: 18551106 tcactagttgaatctctctctccagttaattgtctcctagactaagaattgtatgtcgca
18551047

Query: 1201 ttaatcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagcctt
1260

|||||
Sbjct: 18551046 ttaatcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagcctt
18550987

Query: 1261 gtttaataacttttgtataaacttcaccaaataatcactcttgcgacttctctccccct
1320

|||||
Sbjct: 18550986 gtttaataacttttgtataaacttcaccaaataatcactgttgcgacttctctccccct
18550927

Query: 1321 ttggttgaacaatgcattacacctagtataggttgattttaccaacacacattgccagat
1380

|||||
Sbjct: 18550926 ttggttgaacaatgcattacacctagtataggttgattttaccaacacacattgccagat
18550867

Query: 1381 tttgtgttttcttgagtaccaaattaattaactcagtgtcccatcgccagccaccatcc
1440

|||||
Sbjct: 18550866 tttgtgttttcttgagtaccaaattaattaactcagtgtcccatcgccagccaccatcc
18550807

Query: 1441 catgcgagagtccacttttcttggtggaatcttcctaagctaattaattggttagttcagct
1500

|||||
Sbjct: 18550806 catgcgagagtccacttttcttggtggaatcttcctaagctaattaattggttagttcagct
18550747

Query: 1501 tggccttaaaacacacatgacaaatattttttattataaaacaaacacccagtatacaac
1560

|||||
Sbjct: 18550746 tggccttaaaacacacatgacaaatattttttattataaaacaaacacccagtatacaat
18550687

Query: 1561 aatgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaataatt
1620

|||||
Sbjct: 18550686 aatgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaataatt
18550627

Query: 1621 tggggaggggggtcttcaaaacttgattcaagggttcattgtatcatcgaggattcaccca
1680

|||||
Sbjct: 18550626 tggggaggggggtcttcaaaacttgattcaagggttcattgtatcatcgaggattcaccca
18550567

Query: 1681 aaccctccaaattcaaagagcttgagaaactgggtgggtggtgtgcatatgtttatgtgg
1740

|||||
Sbjct: 18550566 aaccctccaaattcaaagagcttgagaaactgggtgggtggtgtgcatatgtttatgtgg
18550507

Query: 1741 gtgtgtctacggtgataacataaaactcaaggcatgtgaagttgaagagtttcccaata
1800

|||||
Sbjct: 18550506 gtgtgtctacggtgataacataaaactcaaggcatgtgaagttgaagagtttcccaata
18550447

Query: 1801 tagaaaacatagtaattatttcctcatcatcttgagcatacatgcctgtactgaaaac
1860

|||||
Sbjct: 18550446 tagaaaacatagtaattatttcctcatcatcttgagcatacatgcctgtactgaaaac
18550387

Query: 1861 aatcaccaacaaatgatacgggaca 1885

|||||
Sbjct: 18550386 aatcaccaacaaatgatacgggaca 18550362

Score = 309 bits (156), Expect = 1e-81
Identities = 300/344 (87%), Gaps = 13/344 (3%)
Strand = Plus / Minus

Query: 426 atttttttgttattaattgtctatatattgtgttctgtttaaattgaaaacaatattatt
485

|||||

Sbjct: 11204736 |||t|g|a|t|t|a|a|a|a|t|a|c|a|t|a|a|t|t|a|a|t|c|a|a|c|a|a|c|t|t|a|a|t|t|a|a|a|a|t|t|a|a|a|a|a|a|t|a|t|a|t|--t|t|
11204793

```
Query: 1792      tcccaaatatagaaaacatatagtaattatttctcatcatccttgacgacatacatgccctgt  
1851             |         ||          |          |          |          |          |          |  
Sbjct: 23125786 gcttgaacatagaaaacatatagt cattatgtcctcaccatcgttcaacatgc atgccctgc  
23125727
```

Query: 1852 actgaaaacaatcaccaacaaatgatac 1879
||||| ||||||||||||||||||||
Sbjct: 23125726 actggccacaatcaccaacaaatgatac 23125699

Score = 212 bits (107), Expect = 2e-52
Identities = 165/183 (90%), Gaps = 1/183 (0%)
Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatatata-tttaactgacaagttgacttgaactaaaatatttaa
666
||||| ||||| ||| | ||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 15704280 taattgaaatttaaaaaataaaaatttaaccaacaagttgaattgaactaaaatatttaa
15704221

Query: 667 attacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataata
726
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
Sbjct: 15704220 attacaaaatagatatataaaattacaaataatagaacaaaatatttaaatttgaaacaata
15704161

Query: 727 caacaaaaattttaaaatacaaaacaatatggcataaaaattaatggttggtggcctgagcct
786
||| |||| | ||||||| ||||||| ||||| || ||| ||||| ||||||| |||||||
Sbjct: 15704160 caataaaatttttaaaaatacaaaaaatatgacaaaaatttaatatggttggtgagcct
15704101

Query: 787 aca 789
|||
Sbjct: 15704100 aca 15704098

Score = 210 bits (106), Expect = 7e-52
Identities = 280/336 (83%), Gaps = 4/336 (1%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatac
864
||||| ||||||| ||||| || ||||| ||||||| ||||||| |||||
Sbjct: 38089687 gacacatggaacatcgctttggttaactcaattctcagatatccatcttggtgtggatat
38089746

Query: 865 gagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattcttg
924
||||| ||||| | ||| | ||||||| ||||||| ||||||| ||||||| |||||
Sbjct: 38089747 gagaggagacagaatgaccctaagaatttcttttcatttttgggttggggcaaattcttg
38089806

Query: 925 gcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtaca
 984

|||||
 Sbjct: 38089807 -cttgtgacatggtgaccaaatatgcttcggtgcataattctccaacaatcatatgtata
 38089865

Query: 985 tgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatggtgag
 1044

||||
 Sbjct: 38089866 tgttggagacactttccaatgtatacacaggatgtatgtagttcctgtactcatgatgaa
 38089925

Query: 1045 catgctt---ataaacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcac
 1101

|||||
 Sbjct: 38089926 catgcttacaagaacaacaacatgagaacaagacatgtgcaatttctgaaatttgtcac
 38089985

Query: 1102 agtcacactacctttcatctagcttgaccatgaaat 1137

|||||
 Sbjct: 38089986 agtcacaccacttttcatccagcctgatcgtgaaat 38090021

Score = 192 bits (97), Expect = 2e-46
 Identities = 220/260 (84%), Gaps = 7/260 (2%)
 Strand = Plus / Minus

Query: 1578 acaactacaaatcattaaataataacaattacaatcaaataattt---ggggaggggg--
 1631

|||||
 Sbjct: 36814005 acaactacaaatcattaaataataaaataacaatcaattaaattcgaggggggggggat
 36813946

Query: 1632 -tcttcaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaa
 1690

||||
 Sbjct: 36813945 ttcttgaaaactcgattcatggttcattgcttcacgagggtattcatccaaacactccaa
 36813886

Query: 1691 attcaaagagcttgcagaaactggtggtggttgtgcatatgtttatgtgggtgtgtctac
 1750

|||||
 Sbjct: 36813885 attcaaagaacttgcaaaaattggtggtggatgtgcacatgtttgtgtgggtctatctac
 36813826

Query: 1751 ggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaataatagaaaacat
1810

|||| ||| ||| |||| |||||||||| |||| |||||| | | || ||||||||||
Sbjct: 36813825 ggtggtaatatataacttaaggcatgtgaggttgagagttgctcgaacatagaaaacat
36813766

Query: 1811 agtaattatttcctcatcat 1830

||| |||| ||||||||
Sbjct: 36813765 agtcattacatcctcatcat 36813746

Score = 190 bits (96), Expect = 7e-46
Identities = 210/247 (85%), Gaps = 2/247 (0%)
Strand = Plus / Minus

Query: 1632 tcttcaaaacttgattcaagggttcattgtatcatcgaggtattcacccaaaccctccaaa
1691

|||||||||| |||| |||||||||| |||||||||||||| |||||||| ||||
Sbjct: 15702130 tcttcaaaactcgatttttaggttcattgcttcatcgaggtattcatccaaaccgcgcaaa
15702071

Query: 1692 ttcaaagagcttgcagaaaactggtggtggttggtgcataatgtttatgtgggtgtgtctacg
1751

|||||||| |||||||| |||||||||||||| |||||| |||||||||| || |
Sbjct: 15702070 ttcaaagagattgcagaaattggtggtggttggtgcacatgtttgtgtgggtgtgttctc
15702011

Query: 1752 gtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaataatagaaaacata
1811

||| ||| ||| |||| |||||||||| |||| |||||| | |||||||| ||
Sbjct: 15702010 gtggtaatatataacttaaggcatgtgaggttgagagttgtctgaatatagaaa--cta
15701953

Query: 1812 gtaattatttcctcatcatcttgcagcatacatgccctgtactgaaaacaatcaccaaca
1871

|||| || |||||| |||| ||| || || |||||| |||||||| |||| |
Sbjct: 15701952 gtaatcatgtcctcataatcttccagtatgcacgccctgtattgaaaacaattaccaata
15701893

Query: 1872 aatgata 1878

||||||
Sbjct: 15701892 aatgata 15701886

Score = 174 bits (88), Expect = 4e-41
Identities = 202/239 (84%), Gaps = 2/239 (0%)
Strand = Plus / Minus

Query: 1240 ctgtatgtctttcatagccttgtttaatacttttgtataaaacttcaccaaagtgaatcac
1299

Query: 1300 tcttgcgacttctctccccctttggttgaacaatgcattacacctagtataggttgattt
1359

Query: 1360 taccaa--cacacattgccagatTTTGTGTTTTCTTGAGTACCAAATTAATTAACTCAG
1416

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaataatacaattacaatca
1613

Query: 1614 aat-aatttggggagggggtcttcaaaacttgattcaagggttcattgtatcatcgaggtg
1672

Query: 1673 ttcacccaaaccctccaaattcaaagagcttgcagaaactggtggtggttgatgatgt
1732

Sbjct: 38093109 ttcatccaagccctccaacttcaaagacctggtagaaattgatggatggtgcataatgt
38093168

Score = 129 bits (65), Expect = 2e-27
Identities = 133/153 (86%), Gaps = 2/153 (1%)
Strand = Plus / Plus

Query: 611 ttgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaatta
670
 ||||||||||||||| ||||| | || |||| |||| | ||||||||||||||||| ||
Sbjct: 38089473 ttgaaattaaaaaa-atatatgtgaccaacaaattgaattgaactaaaatatttaaata
38089531

Query: 671 caaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaac
730
 ||||||| | | |||||| | ||||||||||||||||||||||||| |||| ||
Sbjct: 38089532 caaaatattt-taaaattatcaacaatagaacaaaatatttaaatttgaaacaatataac
38089590

Query: 731 aaaaattttaaaatacaaaacaatatggcataaa 763
 ||| ||||||||||||||| |||||| ||||||
Sbjct: 38089591 aaattttttaaaatacaaaagaatatgacataaa 38089623

Score = 117 bits (59), Expect = 8e-24
Identities = 137/163 (84%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcatttttggtttacctgattccttgatatccattttggtgtgt
860
 ||||||||||||||| ||||| ||||| || ||| | |||| | ||||||||||||| | | | |
Sbjct: 34361202 atgcgacacatgaaacattcttttgattgaccggttctcagatatccatttcgatttct
34361143

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
 |||| | ||||||||||||||| ||||||||||||||||||||||||| ||||| | |||| |||
Sbjct: 34361142 atacaagaggagacatgatgacctttagaatttcttttcatttgtgggtcgaggcagatt
34361083

Query: 921 cttggcttgatgacatggtgaccaacatgcttcattgcacaatt 963
 ||||||| ||||||||||||| |||| |||||| | |||||||||
Sbjct: 34361082 cttggctcatgacatggtggccaatatgctttgttgacacaatt 34361040

Score = 111 bits (56), Expect = 5e-22
Identities = 137/162 (84%), Gaps = 9/162 (5%)

Query: 882 cctttagaatttcttttcatttttgggttggggcaaattcttggcttgtagacatggtgac
941

Sbjct: 24152235 | | ||||| | | ||||| | | ||||| | | ||||| | | ||||| | | ||||| |
24152176 ccatatgcttcgttacacaattctccaaacaatcctatgtatatgttgagacactttcc

Sbjct: 24152175 | ||||| | ||||||||| | ||| ||||||||| |||
24152116 aatgtatacataggatgtatgtagttattgtaatcatggtgagcatgcttacaaacagca

Sbjct: 24152115 | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
ataacatgcaaacaaggcatgcacaatttctggaatttgccacagtcacacaacctttca
24152056

|||||

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Query: 1119      tc 1120
      ||
Sbjct: 24152055 tc 24152054
```

Query: 995 acttttcagcgtatacacaagatgtatgtagttc---ctatactcatggtgagcatgctt
1051

Sbjct: 36818584 actttccaacgtatacataggatgtatgtagttgtttctgtattcatggtgagcatgctt
36818525

Query: 1052 ataaacaaca---acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcaca
1108

Sbjct: 36818524 acaagcagcagcaacatgagaataaggcatgtgtaatttttgaattttccacagtcaca
36818465

Query: 1109 ctacctttcatctagcttgaccatgaaatttctcactagttgaatctctctctccagtta
1168

Sbjct: 36818464 ccacctttcatctagcctgactgtgaaatttc-cagcggacgaaac-ctctctcggttt
36818407

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
1228

||| ||||| ||||| || |||| ||| ||| ||||| ||||| |||||
Sbjct: 36818406 attatctcctagaccaagaaccgtgtgtcacatcgatcaaactcaagaacaatctgagtt
36818347

Query: 1229 tttgcctttttctgtatgtctttcatagccttggttaataacttttgataaaacttcacca
1288

||||||| | ||| |||| || ||||| ||||| ||||| ||||| |||
Sbjct: 36818346 tttgcctttctttgtgcatcttcgattgccttggttagtacttgcatataaacttgcca
36818287

Query: 1289 aatgtaatcactcttg-cgacttctctccccctttggttgaacaatgcattacacctagt
1347

||| || || | ||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36818286 gatgcaagcattggtggcgacttctctccctcttttggttgaacaatgcattacaccttag
36818227

Query: 1348 ataggttgattttac 1362
||| ||||| |||||
Sbjct: 36818226 atatgttgattttac 36818212

Score = 97.6 bits (49), Expect = 8e-18
Identities = 76/85 (89%)
Strand = Plus / Plus

Query: 703 aaaatatttaaatttgaaataataacaacaaaaattttaaaatacaacaatatggcataa
762

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3935270 aaaatatttaaattacaataataacaacacaaaattttaaaatacaacaatatgcataa
3935329

Query: 763 aattaatggttggtggcctgagccta 787

| |||| || |||| | |||||
Sbjct: 3935330 acttaacgtagttgacttgagccta 3935354

Score = 97.6 bits (49), Expect = 8e-18
Identities = 178/221 (80%)
Strand = Plus / Plus

Query: 1632 tcttcaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaa
1691

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Score = 93.7 bits (47), Expect = 1e-16
Identities = 83/95 (87%)
Strand = Plus / Plus

Score = 89.7 bits (45), Expect = 2e-15
Identities = 135/165 (81%)

Sbjct: 22216877 | ||||| ||||| || ||||| ||||| | | ||||| ||||| ||||| |||||
22216818 tgggtggttgatgcacataatttgtgtaagtgtgtttgcagtggaatatataactcaaggca

Sbjct: 22216817 tgtgagggttagagagttgttttaatatagaaaacatagtaattatgtcatcatcatcttg
22216758

```
Query: 1835      cagcatacatgccctgtactgaaaacaatcaccaacaaatgatac 1879
               || | |||||||          |||||
Sbjct: 22216757 caatacgcatgccctgtaccagccacaatcaccaacaaatgatac 22216713
```

Score = 87.7 bits (44), Expect = 7e-15
Identities = 267/338 (78%), Gaps = 5/338 (1%)
Strand = Plus / Minus

Sbjct: 15704058 cacatgaaacatcactttggttgaccagttcttggatattcattttagtgtggatgtaa
15703999

Sbjct: 15703998 gaggagacaagatgacctttagaatttcttatcttctttggatcgtggaaaattcttggc
15703939

Sbjct: 15703938 tcctaatatggtgaccaatacgccttcattgtgcaattctccaacaatcctctatgtatg
15703879

Sbjct: 15703878 ttggagacac-tttcaatgtatgcacaagatgtatgtagttcatgtattcatgatgagca
15703820

Query: 1047 tgcttata---aacaacaacatgagaacaaaacatgtgcattttttga-aatttgtcaca
1102

Sbjct: 15703819 tgcttaaacgtagtaataacatcagaataaggcatgtgcactttttaagaattttccaca
15703760

Query: 1103 gtcacactacctttcatctagcttgaccatgaaatttc 1140

Sbjct: 15703759 ctcacatcacctttcatccagcttgaccgtgaaatttc 15703722

Score = 87.7 bits (44), Expect = 7e-15
Identities = 157/194 (80%), Gaps = 3/194 (1%)
Strand = Plus / Minus

Query: 949 cttcattgcacaattttcccaagtaatcatttgtacatgttatagatacttttcagcgtat
1008

Sbjct: 22226354 cttcattgcacaattttccaaacaatcatttgtatatgtcggagacattttccaacatat
22226295

Query: 1009 acacaagatgtatgtagttcctataactcatggtgagcatgcttataaa---caacaacat
1065

Sbjct: 22226294 acatagaatgtatgtagttcctgtactcatggcaagcatgcttataagtagcaacaacat
22226235

Query: 1066 gagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagct
1125

Sbjct: 22226234 gagaacatggcatgtgcaatttttggaatttactacagtcacccacctatcatccagcc
22226175

Query: 1126 tgaccatgaaattt 1139

Sbjct: 22226174 tgaccgtgaaattt 22226161

Score = 85.7 bits (43), Expect = 3e-14
Identities = 62/67 (92%), Gaps = 1/67 (1%)
Strand = Plus / Plus

Query: 608 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa
667

Sbjct: 3935223 taattgaaattaaaaaatatattttaaccaacaagttga-atgaactaaaatattttaa
3935281

Query: 703 aaaatattttaaatttgaaataataacaacaaaaatttttaaatacaaaacaatatggcataa
762
 |||||
Sbjct: 24152493 aaaatattttaaattttaacaataaaaacaaaatttttaaatacaaaagaaaatgatataa
24152434

Query: 763 aattaatgttggttgccctgagcctacac 790
 | | |||||
Sbjct: 24152433 attcaatgttggttagcttgaacctacac 24152406

Score = 69.9 bits (35), Expect = 2e-09
Identities = 106/127 (83%), Gaps = 7/127 (5%)
Strand = Plus / Minus

Query: 439 ttaattgtctatatttgtgttctgtttaaattgaaaacaatattatcttcatatgttgt
498
 |||||
Sbjct: 15704624 ttaattatctatatttatgtttgtttaactaaaaataatattattatgcatatgttgt
15704565

Query: 499 taattcttaatttcttatgcataattttatgttttatcatttttt-aagagttgaaatcct
557
 | ||||| || ||||||| | |||||
Sbjct: 15704564 ----tgtaattgtttt--catattttttatcttatttttgaagagttgaaatcct
15704511

Query: 558 ttgtatt 564
 |||||
Sbjct: 15704510 ttgtatt 15704504

Score = 69.9 bits (35), Expect = 2e-09
Identities = 83/99 (83%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
 |||||
Sbjct: 21011089 atgcgacacatagaatatcgcttgggttgaccaggttcttggatatccatttcagtgtgg
21011148

Query: 861 atacgagaggagacatgacaacctttagaatttcttttc 899
 |||||
Sbjct: 21011149 atacgagagaaggtagggcaaccttgaatttcttttc 21011187

Score = 67.9 bits (34), Expect = 7e-09
Identities = 58/66 (87%)
Strand = Plus / Plus

Query: 1072 aaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgacca
1131
 |||||
Sbjct: 21011295 aaaacatgtgcaatttctggaatttgtcatagtcacaccaccggttcacctagcctgaccg
21011354

Query: 1132 tgaaat 1137
 |||||
Sbjct: 21011355 tgaaat 21011360

Score = 67.9 bits (34), Expect = 7e-09
Identities = 49/54 (90%)
Strand = Plus / Minus

Query: 434 tgttattaattgtctatatatttgtgttctgtttaaattgaaaacaatattatttt 487
 |||||
Sbjct: 48273055 tgttattaatggtctatatatttatgttttgtttaaactgaaaataatattatttt
48273002

Score = 65.9 bits (33), Expect = 3e-08
Identities = 132/165 (80%)
Strand = Plus / Plus

Query: 1198 gcattaatcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagc
1257
 |||||
Sbjct: 21011419 gcattgatcaaactcaagaacaatgtgaacatttgcctttcttgtgcgctctttgatgac
21011478

Query: 1258 cttgtttaatacttttgtataaaacttcaccaaataatcactcttgcgacttctctccc
1317
 |||||
Sbjct: 21011479 cttgtttagtacttgcgcataaaattggcctgatgcaaacattgttgcaacttctcttcc
21011538

Query: 1318 ccttttggttgaacaatgcattacacctagtatagggtgattttac 1362
 |||||
Sbjct: 21011539 tcttttgttgaacaatgcattacaccttagatatgttgattttac 21011583

Score = 65.9 bits (33), Expect = 3e-08
Identities = 92/112 (82%), Gaps = 11/112 (9%)
Strand = Plus / Minus

Query: 679 atatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaaaattt
738
 ||||| ||||||||||||||||||||||||||||| ||||||||||||| |
Sbjct: 27373766 atataaaattacaaacaatagaacaaaatatttaca-----atacaacaaaaa--t
27373718

Query: 739 taaaatacaaaacaatatggcataaaattaatgttgttggcctgagcctacac 790
 |||||||||||| | || ||||| |||| | ||||||| |||||||||||||
Sbjct: 27373717 taaaatacaaaagaacatgacataaatttaacattgttggcctgagcctacac 27373666

Score = 63.9 bits (32), Expect = 1e-07
Identities = 200/255 (78%), Gaps = 2/255 (0%)
Strand = Plus / Minus

Query: 1156 ctctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
1215
 ||||||| ||| |||||||||||| || ||||||| || |||||| | ||| ||||||| |
Sbjct: 24152020 ctctctcagggtttattgtctcctggaccaagaatcgtgtgtcgtgtcgatcaaactcatg
24151961

Query: 1216 aacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgt
1275
 |||||||||||| ||||| |||| ||| | ||||| || || || ||| ||| ||||| |||
Sbjct: 24151960 aacaatgtgagcgtttgtctttctctatgcacatctttgatggccttgcttagtacttgtgt
24151901

Query: 1276 ataaacttcaccaaataatgaatacactcttgcgacttctctccccctttgggtgaacaatgc
1335
 |||||||| | | ||| || | | ||| || | || |||||| |||| |||||||||||||
Sbjct: 24151900 ataaacttggctagatgcaagcattgttgtgatttttctccctcttttgggtgaacaatgc
24151841

Query: 1336 attacacctagtatagggttgattttaccaacaca--cattgccagattttgtgttttctt
1393
 |||||| ||| ||| |||||||||||| | | || |||| || |||| | || |||||||
Sbjct: 24151840 attacgccttagatatgttgattttactagcgcacatctattggcaaatttattgatttctt
24151781

Query: 1394 gagtaccaaattaat 1408

```
Query:  516      tgcataatatttatgttttatcattttttaagagttgaaatccttt 559
          |||||  |||  || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43435515 tgcataatatttatattttatcattttttaagagttgaaatccttt 43435472
```

```
Query: 1483      ttaattg 1489
          |||||
Sbjct: 21011715 ttaattg 21011721
```

Score = 60.0 bits (30), Expect = 2e-06
Identities = 87/106 (82%)
Strand = Plus / Minus

```
Query: 1317      ccctttgggtgaacaatgcattacacctagtatagggtgattttac 1362
                | ||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27373162 ctttttttqttaacaattcattacaccttatatatgttgattttac 27373117
```

Score = 58.0 bits (29), Expect = 7e-06
Identities = 42/45 (93%), Gaps = 1/45 (2%)
Strand = Plus / Plus

```
Query: 165          ttttttttatccaaataata-aaaaaaaaattaattattttacccaaa 208
                |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Sbjct: 18541682    tttttttgcccaataatacaaaaaaaaaattaattattttacccaaa 18541726
```

Score = 58.0 bits (29), Expect = 7e-06
Identities = 53/61 (86%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatattttaatt 669
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 24152510 acaagttgaattgaactaaaatatttaaatt 24152480

Score = 54.0 bits (27), Expect = 1e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 1416 gtgtcccatcgccagccaccatcccatgagag 1450
|||||||
Sbjct: 34360570 gtgtcccatcgtcagccaccatcccatgcaagag 34360536

Score = 52.0 bits (26), Expect = 4e-04
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 262 atttcttaattacatTTTTTTTatacatTTtagaaa 295
|||||||
Sbjct: 3934947 atttcttaattatatTTTTTTTatatatttagaaa 3934980

Score = 50.1 bits (25), Expect = 0.002
Identities = 55/65 (84%)
Strand = Plus / Minus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
1613
||||
Sbjct: 15702217 atacgacaatgaacaaaacacacgatgactacaaatcactaaataataaaaatagcaataa
15702158

Query: 1614 aataa 1618
||||
Sbjct: 15702157 aataa 15702153

Score = 50.1 bits (25), Expect = 0.002
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 557 tttgtatTTTTtattttatttgattattataatacata 593
|||||||
Sbjct: 27373863 tttgtatTTTcatTTTatttgattgttaaatacata 27373827

Score = 50.1 bits (25), Expect = 0.002
Identities = 40/45 (88%)
Strand = Plus / Minus

```
Query: 1416      gtgtcccatcgccagccaccatcccatgagagagtcacttttc 1460
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36818140 gtgtcccatcatcgccaccatcccatgcaagagtcatttttc 36818096
```

Score = 50.1 bits (25), Expect = 0.002
Identities = 31/33 (93%)
Strand = Plus / Plus

```
Query: 166      ttttttatccaaataataaaaaaaaaattaatta 198
                ||||| ||||| ||||| ||||| |||||
Sbjct: 48271715 ttttttatccaaataatacaataaattaatta 48271747
```

Score = 48.1 bits (24), Expect = 0.006
Identities = 60/72 (83%)
Strand = Plus / Plus

```
Query: 427      tttttttgttattaattgtctatatttgtgttctgtttaaattgaaaacaatattattt
486
                ||||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11204616 ttttttgtattattaattgtttatatttatgttttatttaactgaaaatattactattt
11204675
```

```
Query: 487      ttcatatgttgt 498
                | ||||| ||||
Sbjct: 11204676 tgcataattttgt 11204687
```

Score = 48.1 bits (24), Expect = 0.006
Identities = 30/32 (93%)
Strand = Plus / Minus

```
Query: 176      aaataataaaaaaaaaattaattattttacccaa 207
                ||||| ||| ||||| ||||| ||||| |||||
Sbjct: 34361771 aaataatacaataaattaattattttacccaa 34361740
```

Score = 48.1 bits (24), Expect = 0.006
Identities = 36/40 (90%)
Strand = Plus / Plus

Query: 554 tcctttgtatTTTTATTTTATTtgattattataatacata 593
||||| ||||| ||||||||||||||| | |||||
Sbjct: 38089432 tcctttgcattttaattttatttgattattaaagtacata 38089471

Score = 48.1 bits (24), Expect = 0.006
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 1308 cttctctccccctttggttgaacaatgcatta 1339
||||||| ||| |||||||||||||||
Sbjct: 38090190 cttctctccctcttttggttgaacaatgcatta 38090221

Score = 46.1 bits (23), Expect = 0.025
Identities = 38/43 (88%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaaaattgtttgatTTTTATTTT 430
||||||| ||||||||| ||| || |||||||||||
Sbjct: 8645984 ttttttttatgttttggtttgtaattttttatatTTTTATTTT 8646026

Score = 46.1 bits (23), Expect = 0.025
Identities = 62/75 (82%)
Strand = Plus / Plus

Query: 814 aacatcattttggtttacctgattcctggatatccattttggtgtgtatacgagaggaga
873
||||| |||| ||| |||| ||| | ||||||||||| ||||| |||| || |||||
Sbjct: 49401350 aacatcgtttttagttgaccttattatcggatatccatttcggtgtggatactagtggaga
49401409

Query: 874 catgacaaccttttag 888
|| ||| ||| ||||
Sbjct: 49401410 caagacgacccttag 49401424

Score = 44.1 bits (22), Expect = 0.098

Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttta 408
|||||
Sbjct: 15013463 cttttttttttgttttgtttta 15013484

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 610 attgaaattaaaaaatatatat 631
|||||
Sbjct: 16797076 attgaaattaaaaaatatatat 16797097

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 413 tgtttgatttttatttttttt 434
|||||
Sbjct: 20639132 tgtttgatttttatttttttt 20639153

Score = 44.1 bits (22), Expect = 0.098
Identities = 49/58 (84%)
Strand = Plus / Plus

Query: 995 acttttcagcgtatacacaagatgtatgtagttcctatactcatggtgagcatgctta
1052
||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 21011228 actttccaacgtatacacaggatgtatgtagtttacatactcatgattagaatgctta
21011285

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 1432 ccaccatcccatgcgagagtccactt 1457
||||| ||||| ||||| ||||| |||||
Sbjct: 22225989 ccaccatcccatgggagagtccactt 22225964

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 404 ttttaaaattgtttgtatttttatttttt 432
||||||| ||| |||||||||
Sbjct: 2291665 ttttaaaatagttttatttttatttttt 2291637

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttta 408
||||||| |||||||
Sbjct: 7474426 ttttttttttgttttgtttta 7474406

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 557 tttgtatttttattttatttgatta 581
||||||| ||||||| |||
Sbjct: 9792212 tttgtatttttattttattttatta 9792236

Score = 42.1 bits (21), Expect = 0.39
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 463 tttaaattgaaaacaatattatttttcatatgttggt 499
||||| ||||| || ||||||| |||||||||
Sbjct: 11971502 tttaaactgaaaataattttattttgcataatgttggt 11971538

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaat 196
|||||
Sbjct: 19929762 aaataataaaaaaaaaattaat 19929782

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 1859 acaatcaccaacaaatgatac 1879
|||||
Sbjct: 33833821 acaatcaccaacaaatgatac 33833841

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattta 634
|||||
Sbjct: 36357965 aaattaaaaaatatatattta 36357945

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 419 tatttttattttttttgttattaat 443
|||||
Sbjct: 44645755 tatttttattttttttgttattaat 44645731

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 419 tatttttattttttttgttattaat 443
|||||
Sbjct: 44662130 tatttttattttttttgttattaat 44662106

Score = 42.1 bits (21), Expect = 0.39
Identities = 33/37 (89%)

Strand = Plus / Minus

Query: 347 agttaagaaatcgggttccttggaacgacttcttaa 383
|||||||
Sbjct: 47865552 agttaagaaatcgggttccttagaaaaccgatttcttaa 47865516

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 1388 tttcttgagtaccaaattaattaactcag 1416
|||||||
Sbjct: 49401918 tttcttgagtacgaaattaatttactcag 49401946

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 561 tattttttattttatttgattattataata 589
|||||||
Sbjct: 49834071 tattttttattttattttatgattataata 49834043

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaattaattat 199
|||||||
Sbjct: 424380 aaataatacaaaaaaattaattat 424357

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatattt 633
|||||||
Sbjct: 1679004 aaattaaaaaatatatatattt 1678985

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaaattaa 195
|||||||
Sbjct: 5592070 aaataataaaaaaaaaaattaa 5592051

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1523 aatattttttattataaaaaca 1542
|||||||
Sbjct: 6708454 aatattttttattataaaaaca 6708435

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 557 tttgtattttttattttatatt 576
|||||||
Sbjct: 8468710 tttgtattttttattttatatt 8468729

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattt 633
|||||||
Sbjct: 8958174 aaattaaaaaatatatattt 8958193

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 557 tttgtattttttattttatatt 576
|||||||
Sbjct: 9661827 tttgtattttttattttatatt 9661846

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 705 aatattttaaatTTGaaataa 724
 |||||
Sbjct: 10400302 aatattttaaatTTGaaataa 10400321

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 277 TTTTTTatacatTTGaaat 296
 |||||
Sbjct: 11205203 TTTTTTatacatTTGaaat 11205184

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 164 TTTTTTTTatccaaataata 183
 |||||
Sbjct: 12796747 TTTTTTTTTatccaaataata 12796766

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 557 TTTgtatttttattttattt 576
 |||||
Sbjct: 14318401 TTTgtatttttattttattt 14318420

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaaaatatatattta 634
 ||||| ||||||||||||||||
Sbjct: 17171866 ttgaagttaaaaaaatatatattta 17171843

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattt 633
 ||||||||||||||||
Sbjct: 23879277 aaattaaaaaatatatattt 23879296

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 ||||||||||||||||
Sbjct: 25208666 ttttttttttgttttgtttt 25208685

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 673 aaatagatatgaaattacaa 692
 ||||||||||||||||
Sbjct: 39712352 aaatagatatgaaattacaa 39712333

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 610 attgaaattaaaaaatatatattt 633
 ||||| ||||||||||||||||
Sbjct: 42304230 attgaagttaaaaaaatatatattt 42304253

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 322      atgttcattttttttttcaa 341
              |||||
Sbjct: 45422984 atgttcattttttttttcaa 45423003
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 418      gtatttttattttttttggt 437
              |||||
Sbjct: 46924387 gtatttttattttttttggt 46924368
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 658      aatatttaaattacaaaata 677
              |||||
Sbjct: 48455871 aatatttaaattacaaaata 48455852
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 179      taataaaaaaaaaattaatta 198
              |||||
Sbjct: 49328872 taataaaaaaaaaattaatta 49328853
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 1325     ttgaacaatgcattacacct 1344
              |||||
Sbjct: 49401861 ttgaacaatgcattacacct 49401880
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 392 ttttttgttttgttttaaa 410
|||||||
Sbjct: 525714 ttttttgttttgttttaaa 525696

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 708 atttaaatttgaaataata 726
|||||||
Sbjct: 1061415 atttaaatttgaaataata 1061433

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 607 ttaattgaaattaaaaaatatat 629
||||| |||||||
Sbjct: 1691920 ttaattgaaattaaaaaatatat 1691898

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 422 ttttattttttttgttatt 440
|||||||
Sbjct: 1817993 ttttattttttttgttatt 1818011

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Plus

Query: 188 aaaattaattatttaccctaaaaattattta 218
|||| |
Sbjct: 2009562 aaaataattatttaccctaaaacataattta 2009592

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Minus

Query: 165 tttttttatccaaataataaaaaaaaaattaa 195
 ||||| ||||| ||||| ||||| |||||
Sbjct: 3008610 tttttttaaccaaacaataaaaaaaagttaa 3008580

Score = 38.2 bits (19), Expect = 6.1
Identities = 31/35 (88%)
Strand = Plus / Minus

Query: 562 atttttattttatttgattattataatacataatt 596
 ||||| ||||| ||||| ||||| |||||
Sbjct: 3128265 atttttattttatttaattaaaataataataatt 3128231

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 734 aattttaaaatacaaaacaa 752
 ||||| ||||| ||||| ||||| |||||
Sbjct: 3265107 aattttaaaatacaaaacaa 3265125

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 660 tatttaaattacaaaatag 678
 ||||| ||||| ||||| ||||| |||||
Sbjct: 3344917 tatttaaattacaaaatag 3344935

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 419 tattttttattttttttgtt 437
 |||||
Sbjct: 3870592 tattttttattttttttgtt 3870610

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 273 acatttttttatacattta 291
 |||||
Sbjct: 4544590 acatttttttatacattta 4544572

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtattttttatttttt 432
 |||||
Sbjct: 4652148 gtttgtattttttatttttt 4652166

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1524 atattttttattataaaaca 1542
 |||||
Sbjct: 4912526 atattttttattataaaaca 4912508

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 387 cttttttttttgttttggt 405
 |||||
Sbjct: 5773428 cttttttttttgttttggt 5773410

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

```
Query: 414      gtttgtatttttatttttt 432
              |||||
Sbjct: 6315976 gtttgtatttttatttttt 6315994
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 568      attttatttgattattata 586
              |||||
Sbjct: 6901395 attttatttgattattata 6901377
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 615      aattaaaaaatatatattt 633
              |||||
Sbjct: 7376688 aattaaaaaatatatattt 7376670
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 558      ttgtatttttattttattt 576
              |||||
Sbjct: 7508518 ttgtatttttattttattt 7508500
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 1522     aaatatattttattataaaa 1540
              |||||
Sbjct: 7699455 aaatatattttattataaaa 7699437
```


Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 8105912 aaatatattttattataaaa 8105930

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 554 tcctttgtatttttattttattt 576
 ||||| |||||
Sbjct: 9240371 tccttttatttttattttattt 9240349

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 523 tttatgttttatcatTTTT 541
 ||||| |||||
Sbjct: 9896821 tttatgttttatcatTTTT 9896803

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 183 aaaaaaaaaattaattattt 201
 |||||
Sbjct: 10543900 aaaaaaaaaattaattattt 10543918

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 650 tgaactaaaatattttaattacaaaat 676
 ||||| ||||| |||||
Sbjct: 11195609 tgaactaaaatattttaattataaaaat 11195635

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 563 tttttattttatttgattattat 585
 ||||| |||||||||||||||
Sbjct: 12569199 ttttagtttatttgattattat 12569177

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 707 tatttaaatttgaaataat 725
 |||||||||||||||
Sbjct: 13057915 tatttaaatttgaaataat 13057933

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgtttgttttaa 410
 ||||||||| |||||||||||
Sbjct: 13185183 ttttttttttttttgttttaa 13185161

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttgtttgttt 407
 |||||||||||||||
Sbjct: 14563662 ttttttttgtttgttt 14563680

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatTTTTtattttattt 576
 |||||
Sbjct: 14996268 ttgtatTTTTtattttattt 14996286

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaaaattgtttg 418
 |||| ||||| ||||| |||||
Sbjct: 15539164 ttttgtttttttttgtttgaaaattgtttg 15539194

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1513 acacatgacaaatattttt 1531
 |||||
Sbjct: 15616842 acacatgacaaatattttt 15616824

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 412 ttgtttgtatttttatttttttt 434
 ||||| |||||
Sbjct: 15665883 ttgtttgtatgtttatttttttt 15665861

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1506 ttaaaacacacatgacaaa 1524
 |||||
Sbjct: 15702245 ttaaaacacacatgacaaa 15702227

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

```
Query: 609      aattgaaattaaaaaatat 627
              |||||
Sbjct: 17051774 aattgaaattaaaaaatat 17051792
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

```
Query: 425      tattttttttgttattaattgtc 447
              |||||
Sbjct: 19837658 tattttttttgtgattaattgtc 19837680
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 421      tttttattttttttgttat 439
              |||||
Sbjct: 20656294 tttttattttttttgttat 20656276
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 615      aattaaaaaatatatatattt 633
              |||||
Sbjct: 21185241 aattaaaaaatatatatattt 21185259
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 389      tttttttttgttttgtttt 407
              |||||
Sbjct: 23500970 tttttttttgttttgtttt 23500988
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 31/35 (88%)
Strand = Plus / Minus

Query: 593 aattaaacaacaacttaattgaaattaaaaaatat 627
 ||||||| | |||||||
Sbjct: 25197665 aattaaacaacaagtaaattttaattaaaaaatat 25197631

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 419 tattttttattttttttggttatta 441
 ||||||| |||||||
Sbjct: 27565806 tattttttattttttggttatta 27565784

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 561 tattttttatttttatttgat 579
 ||||||| |||||||
Sbjct: 29899634 tattttttatttttatttgat 29899652

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 188 aaaattaattatttaccca 206
 ||||||| |||||||
Sbjct: 37475103 aaaattaattatttaccca 37475085

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatattttttattataaaa 1540
 ||||||| |||||||
Sbjct: 38665259 aaatattttttattataaaa 38665277

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacatatttagaaatt 297
 |||||
Sbjct: 39518240 ttttatacatatttagaaatt 39518258

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 620 aaaaatatatatattaactgacaa 642
 |||||
Sbjct: 40715595 aaaaatatatatattaactaaca 40715573

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaaaaattaa 195
 |||||
Sbjct: 44053261 aataataaaaaaaaaaattaa 44053243

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 195 attatttacccaaaaaattattt 217
 |||||
Sbjct: 45011944 attatttacccaaataattattt 45011966

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tattttttattttatttgattatt 583
 |||||
Sbjct: 46423451 tattttttattttattttattatt 46423473

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaatta 198
 |||||
Sbjct: 46439804 aataaaaaaaaaattaatta 46439786

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaaaaatatatt 632
 |||||
Sbjct: 47049354 aaattaaaaaaaaatatatt 47049372

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaaaaatatatt 632
 |||||
Sbjct: 47069796 aaattaaaaaaaaatatatt 47069814

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaaaaatatatt 632
 |||||
Sbjct: 47078928 aaattaaaaaaaaatatatt 47078946

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
|||||
Sbjct: 47084698 aaattaaaaaatatatatt 47084716

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 522 ttttatgttttatcatttttta 544
|||||
Sbjct: 47889534 ttttatgttttatcatttttta 47889556

Score = 38.2 bits (19), Expect = 6.1
Identities = 31/35 (88%)
Strand = Plus / Minus

Query: 262 atttcttaattacatttttttatacathtagaaat 296
|||||
Sbjct: 48273201 atttcttaattacttttttatataggtttagaaat 48273167

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 620 aaaaatatatatatttaactg 638
|||||
Sbjct: 48356235 aaaaatatatatatttaactg 48356217

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 695 aatagaacaaaatattttaattt 717
|||||
Sbjct: 48560642 aataaaacaaaatattttaattt 48560664

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatatttttattataaaa 1540
 |||||
Sbjct: 48648746 aaatatatttttattataaaa 48648764

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 567 tattttatttgattattat 585
 |||||
Sbjct: 48920212 tattttatttgattattat 48920194

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaatta 198
 |||||
Sbjct: 49008081 aataaaaaaaaaattaatta 49008063

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
 |||||
Sbjct: 49601036 aaattaaaaaatatatatt 49601054

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgtttta 408
 |||||
Sbjct: 50275019 ttttttttgttttgtttta 50275037

>[gb|CM000841.1](#) Glycine max chromosome 8, whole genome shotgun sequence
Length = 46995532

Score = 402 bits (203), Expect = e-109
Identities = 522/623 (83%), Gaps = 9/623 (1%)
Strand = Plus / Minus

Query: 798 ggaatgcgacacatggaacatcattttgggtttacctgattccttggatatccattttggtg
857

|||||
Sbjct: 36392133 ggaatgcgacatatggaacatcgttttgggttgacctagttccttggatatccattttggtg
36392074

Query: 858 tgtatacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaa
917

|||||
Sbjct: 36392073 tgtatacgagaggagacaaaacaatctttagaatttcttttcatttttaggtcgaggcaa
36392014

Query: 918 attccttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcat
977

|||||
Sbjct: 36392013 attccttggcttgtgacacggtgtccaatatgcttcattgtgaaattccccaacaattct
36391954

Query: 978 ttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactca
1037

|||||
Sbjct: 36391953 ttgtacacggttagagacattttccaatatatacataggatgtatatagttcctataactca
36391894

Query: 1038 tgggtgagcatgcttataaaca---acaacatgagaacaaaacatgtgcattttttgaaat
1094

||
Sbjct: 36391893 tgttgagcatgcttacaagaagtaacaacatgagaacaaaacatgtgcattttttggaatt
36391834

Query: 1095 ttgtcacagtcacactacctttcatctagcttgaccatgaaatttctcactagttgaatc
1154

||
Sbjct: 36391833 ttc-cacagtcacaccaccttccatccaacctgaccgtgaaatttccagcaagttgaatc
36391775

Query: 1155 tctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaa
1214

|||||

Sbjct: 36391774 tctctcag--gttaattatctcttggactaagaact-tgtgtcacatcaatcaaacttaa
36391718

Query: 1215 gaacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaacttttg
1274

|||| ||| |||||||||||||||| | ||| |||| |||||||||||||||| |||| ||
Sbjct: 36391717 gaataatatgagagtttgcctttctttgtgcatcttccatagccttgtttagtacttg
36391658

Query: 1275 tataaacttcaccaaagttaatcactcttgcgacttctctcccccttgggtgaacaatg
1334

||||||| | | |||||||| | |||||||||||||||| ||||||||||||||||
Sbjct: 36391657 tataaacttggctagatgtaatcattgttgcgacttctctccctcttgggtgaacaatg
36391598

Query: 1335 cattacacctagtataggttgattttaccaacacacat--tgccagattttgtgttttct
1392

|||| ||||| |||||||||||||||| | | ||||| || | ||||| ||||||||
Sbjct: 36391597 catttcaccttgataggttgattttactagcgcacatattggttaaatttcattgttttct
36391538

Query: 1393 tgagtaccaaattaattaactca 1415
|||||| | ||||||| |||||
Sbjct: 36391537 tgagtacttaattaattgactca 36391515

Score = 341 bits (172), Expect = 3e-91
Identities = 311/354 (87%), Gaps = 10/354 (2%)
Strand = Plus / Minus

Query: 446 tctatatatttggttctgttttaaattgaaaacaatattatttttcatatggttgtaattct
505

||||||| |||| ||||| |||||||| |||||||||||| ||| |||| |||
Sbjct: 36392499 tctatatatttatgttttggttacattgaaaataatattattttgcat-----gttattttt
36392445

Query: 506 taatttcttatgcatattttatgttttatcatttttt-aagagttgaaatcctttgtatt
564

| ||| || |||||||||||| |||||||||||| ||| |||||||| ||||| |||
Sbjct: 36392444 aatttttttttgcatattttatattttatcattttttgaagggttgaaattctttg-att
36392386

Query: 565 tttattttatttgattattataataacataaattaacaacaacttaattgaaattaaaaaa
624

|||||||||||||||||| |||||||||||| ||||||||||||||||||||
Sbjct: 36392385 tttattttatttgattattaaaataacataaattaatcaacaacttaattgaaattaaaaaa
36392326

Query: 625 tatatattttaactgacaagttgacttgaactaaaatattttaaattacaaaatagatatga
684
 ||||| ||||| || ||||| ||||| ||||| |||||
Sbjct: 36392325 ---atatttaaccaacaagttgagttaaactaaaatatttaagttacaaaataaatatga
36392269

Query: 685 aattacaaacaatagaacaaaatattttaaatttgaaataatacaacaaaaatttttaaaat
744
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36392268 aattacaaacaatagaacaaaatattttaagtttgaaacaatacaacaaatttttttaaaat
36392209

Query: 745 acaaacaatatggcataaaaattaatggttggtggcctgagcctacacaatggggg 798
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36392208 acaaataatatgatataaaacttaacggttggtggcctgagcctacacagtggggg
36392155

Score = 303 bits (153), Expect = 7e-80
Identities = 245/273 (89%), Gaps = 2/273 (0%)
Strand = Plus / Minus

Query: 518 catattttatgttttatcattttttaagagttgaaatcctttgtatttttattttatttg
577
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16846810 catatggttatgttttatcattttttaagagttgaaatcctttatatttttggtttattca
16846751

Query: 578 attattataatacataattaacaacaacttaattgaaattaaaaaatatatattttaact
637
 ||| | | | ||||| ||||| ||||| ||||| | |||||
Sbjct: 16846750 attgtcaaaacacataattaatcaacaacttaattaaaattaaaaaa-acatatttaaac
16846692

Query: 638 gacaagttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaacaat
697
 ||||| | | ||||| ||||| ||||| ||||| ||||| |||
Sbjct: 16846691 aacaagttaaatcgaactaaaatatttcaattacaaaatagatataaaattacaaataat
16846632

Query: 698 agaacaaaatattttaaatttgaaataatacaac-aaaaatttttaaaatacaaacaatatg
756
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16846631 agaacaaaatattttaaatttgaaacaatacaacaaaaaatttttaaaatacaaacaatata
16846572

Query: 757 gcataaaaattaatggttggtggcctgagcctaca 789

||||| ||||||||| |||||||||
Sbjct: 16846571 acataaacttaatgttgttggttgagcctaca 16846539

Score = 230 bits (116), Expect = 8e-58
Identities = 276/329 (83%), Gaps = 4/329 (1%)
Strand = Plus / Minus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
1613

||||||| || ||||||||| ||||||||| ||||||||| ||| |||
Sbjct: 34668527 atacaacaacgaaaaacacacatgacaactacaaatcattaaataataaaaataaaaattg
34668468

Query: 1614 aataatttggggaggggg---tcttcaaaacttgattcaagggttcattgtatcatcgag
1669

| ||| ||||| ||| ||||||||| ||||||||| ||||||||| ||||| ||
Sbjct: 34668467 agtaaatgggggtgggggatttcttcaaaactcgattcaagggttcattgtttcatcaag
34668408

Query: 1670 gtattcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtgtgacata
1729

||||||| ||||||||| ||||||||| ||| | | ||||||||| |||||||||
Sbjct: 34668407 gtattcatccaaaccctccaaattcaaagagctggcaaagaatgggtgggtgtgacata
34668348

Query: 1730 tgtttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagag
1789

||||| ||| ||||||||| ||||| ||| ||| ||||| ||||||||| ||| |||
Sbjct: 34668347 tgtttgtgtagggtgtgtctgcgggtggtaatatataactccaggcatgtgagcttggagat
34668288

Query: 1790 tttcccaaatatagaaaacatagtaattatttctcatcatcttgcagcatatgcct
1849

|| || ||||||||| ||||| ||||||||| || ||| ||| |||||||||
Sbjct: 34668287 ttctatgaacatagaaaacataggcattatatctcatcgctcgtgcaacatgcatgcct
34668228

Query: 1850 gtactgaaaacaatcaccaacaatgata 1878

||||| ||||||||| |||||||||
Sbjct: 34668227 atactggccacaatcatcaacaatgata 34668199

Score = 161 bits (81), Expect = 6e-37
Identities = 117/129 (90%)
Strand = Plus / Plus

Query: 628 atattttaactgacaagttgacttgaactaaaatatatttaaattacaaaatagatatgaaat
687

Sbjct: 1824354 atattttaaccaacaagttgaattgaactaaaatatatttaaattataaaaataaatataaaat
1824413

Query: 688 tacaacaatatagaacaaaatattttaaatTTTgaaataatacaacaaaaatttttaaataca
747

Sbjct: 1824414 tataaacaatagaacaaaatattttaaattttaaataatacaataaaaaattttaaataata
1824473

```
Query: 748      aacaatatg 756
           || |||||
Sbjct: 1824474 aataatatg 1824482
```

Score = 149 bits (75), Expect = 2e-33
Identities = 155/180 (86%), Gaps = 5/180 (2%)
Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatattaa
667

Sbjct: 12243972 taattgaaattaaaaaa--atatttaaccaacaagttgaattgaactaaaatattttaa
12243916

Query: 668 ttacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataatac
727

Sbjct: 12243915 ttgtaaaatatatatataattacaacaatatataacaaaatatttaaattctgaagcaatac
12243856

Query: 728 aacaaaaattttaaaatacaaacatatggcataaaattaatgttgttggcctgagccta
787

Sbjct: 12243855 ||||| |||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
12243798 aaaaaaaaa--ttaaatacaagaatatgacataaatttaacattgttgacttgagccta

Score = 149 bits (75), Expect = 2e-33
Identities = 102/111 (91%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
698

||||||| | || |||||||||||||||| |||||||||||||||| ||||||||||||||||
 Sbjct: 46287509 acaagttaaattaaactaaaatattttaacttacaaaatagatataaaattacaaacaata
 46287450

Query: 699 gaacaaaatattttaatttgaaataataacaacaaaaattttaaaatacaaa 749
 ||||||||| |||||||||||| |||||||||||| || ||||||||||||
 Sbjct: 46287449 gaacaaaatactttaaatttgaaacaataacaacaaaattttctaaaatacaaa 46287399

Score = 129 bits (65), Expect = 2e-27
 Identities = 132/153 (86%), Gaps = 1/153 (0%)
 Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatattttaattacaaaatagatatgaaattacaaacaata
 698
 ||||||||| |||||||||||||||||||| |||| | | ||||||||| |||||||
 Sbjct: 23485961 acaagttgaattgaactaaaatattttaattataaaaacattt-tgaaattaccaacaata
 23485903

Query: 699 gaacaaaatattttaatttgaaataataacaacaaaaattttaaaatacaaaacaatatggc
 758
 ||| || |||||||||||||||||||| |||| || ||||||||| | |||| |
 Sbjct: 23485902 gaataagatatatttaatttgaaataatacatcaaaattttcaaaatacaaagactatgac
 23485843

Query: 759 ataaaattaatgttggttgccctgagcctacaca 791
 ||||| |||| ||||||| |||||| |||||
 Sbjct: 23485842 ataaatttaacattggttggttgagccaacaca 23485810

Score = 125 bits (63), Expect = 3e-26
 Identities = 295/369 (79%), Gaps = 5/369 (1%)
 Strand = Plus / Minus

Query: 997 ttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgcttataaa
 1056
 |||||| | |||||||| || || |||||| | |||||||||||||||| ||| ||
 Sbjct: 12243569 ttttcaacttatacacatgatacatatagttcttgactcatggtgagcatggtttacaag
 12243510

Query: 1057 ca---acaacatgagaacaaaacatgtgcattttttgaaatttgacagtcacactacc
 1113
 || ||||||||| |||| |||||||| |||||| |||||||| | |||| |
 Sbjct: 12243509 cagcaacaacatgaaaacaaggcatgtgcaatttttggaatttgatcataatcacatcatt
 12243450

Query: 1114 tttcatctagcttgaccatgaaatttctcactagtt-gaatctctctctccagttaattg
1172

||||| ||| | ||| ||| ||||| || | | ||||| ||||| |||||
Sbjct: 12243449 tttcatccagcctaaccgtgagatttc-cagtgggtcgaatctgtctctcaggttaattg
12243391

Query: 1173 tctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttg
1232

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Sbjct: 12243390 tctcctggaccaagaactgtgtgtcgcacatcaactcaagaacaatgtgagtgttt
12243331

Query: 1233 cctttttctgtatgtctttcatagccttggttaataacttttgataaaacttcaccaaag
1292

|||| ||| | ||||| ||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 12243330 tctttctctatgtgtcttccatgactttggttagtacttggtgataaaacttggtcaaag
12243271

Query: 1293 taatcactcttgcgacttctctcccccttggttgaacaatgcattacacctagtatagg
1352

||| || | ||| ||| ||| ||| ||||| ||||| ||||| ||| ||| |||
Sbjct: 12243270 taagcattgtgtgacatctttccttatttggttgaacaatgtgttacaacttatatatg
12243211

Query: 1353 ttgatttta 1361

|||||||
Sbjct: 12243210 ttgatttta 12243202

Score = 123 bits (62), Expect = 1e-25
Identities = 164/198 (82%)
Strand = Plus / Minus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224

||||||| ||||| || ||||| | | | ||||| || ||||| ||||| |||||
Sbjct: 46286961 gttaattgtctcctggattaagaatcatgttttgcatgattgaactcaagaacaatgtg
46286902

Query: 1225 agagtttgcccttttctgtatgtctttcatagccttggttaataacttttgataaaacttc
1284

||||||| ||||| ||| ||||| ||| ||||| ||||| ||||| |||||
Sbjct: 46286901 agagtttgcccttctctatgcatcttttataatcttggttagtacttggtgataaaacttg
46286842

Query: 1285 accaaatgtaatcactcttgcgacttctctcccccttggttgaacaatgcattacacct
1344

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Score = 105 bits (53), Expect = 3e-20

Identities = 111/129 (86%), Gaps = 1/129 (0%)
Strand = Plus / Minus

```
Query: 607      ttaattgaaatta-aaaaatatatatatttaactgacaagttgacttgaactaaaatatttta
665
          |||
Sbjct: 42640655 ttaattgaaattttaaaaaaatatatatttaaccaataatttaaattaaattaaaatatttta
42640596
```

```
Query: 666      aattacaaaaatagatatgaaattacaaacaatagaacaaaaatattttaaatttgaaataat
725            ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42640595 aattataaaatagatatataaaattaaaaacaatagaataaaaatattttaaattaaaaaaat
42640536
```

```
Query: 726      acaacaaaa 734
           |||||
Sbjct: 42640535 acaacaaaa 42640527
```

Score = 105 bits (53), Expect = 3e-20
Identities = 118/139 (84%), Gaps = 3/139 (2%)
Strand = Plus / Minus

```
Query: 1005      gtatacacaagatgtatgtagtttctataactcatggtgagcatgcttata--aacaaca
1061            |||
Sbjct: 46287122 gtatacacatgatgtatgtagtttctataactcatggtgagcatgcttacaagtagcaaca
46287063
```

```
Query: 1062      acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
1121            ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46287062 acatgcgagcaaggcatgtgcacttttttagaatttatcatagtcgcaccacctctcatct
46287003
```

```
Query: 1122      agcttgaccatgaaatttc 1140
          |||||      |||||
Sbjct: 46287002 agcttgactgtgaaatttc 46286984
```

Score = 99.6 bits (50), Expect = 2e-18
Identities = 130/156 (83%), Gaps = 3/156 (1%)
Strand = Plus / Minus

Query: 861 atacgagaggagacatgacaaccttagaatttcttttcatttttgggttggggcaaatt
920

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860

Query: 861 atacgagaggagacatgacaaccttagaatttcttttcatttttgggttggggcaaatt
920

Query: 1420 ccccatcgccagccaccatcccatgcgagagtccacttttcttggtggaatcttcctaagc
1479

Sbjct: 36391493 ccccatcgccgaccaccattctatgtgagagtcacatttcttggtgaatctccctaagc
36391434

Query: 1480 taattaattgtagttcagcttg 1502
 ||||| |||||
Sbjct: 36391433 caattaattgctagttcagcttg 36391411

Score = 87.7 bits (44), Expect = 7e-15
Identities = 139/170 (81%), Gaps = 3/170 (1%)
Strand = Plus / Minus

Query: 954 ttgcacaatttcccaagtaatcatttgtacatggttatagatacttttcagcgatacac
1013
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46657155 ttgcacaatttctccaaccaatcatttgtatatgttggagacactttctaacaataacacg
46657096

Query: 1014 agatgtatgtagttcctataactcatgggtgagcatgcttataaaca---acaacatgagaa
1070
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46657095 ggatgtatgtagtttttgtactaatgatgagcatgcttacaagcagcaacaacatgagaa
46657036

Query: 1071 caaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc 1120
 ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46657035 caagacatgtgcaacttatgaaatttgtcatagctcaccacctttcatc 46656986

Score = 85.7 bits (43), Expect = 3e-14
Identities = 76/87 (87%)
Strand = Plus / Minus

Query: 703 aaaatattttaaatttgaaataataacaacaaaaattttaaaatacaaaacaatatggcataa
762
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 35410534 aaaatattttaaatttgaaataataacaacaaaaattttgctaatacaaaataatatggcatat
35410475

Query: 763 aattaatgttgttggcctgagcctaca 789
 ||| ||||| ||||| ||||| |||||
Sbjct: 35410474 attcaatgttgttggtttgagcctaca 35410448

Score = 83.8 bits (42), Expect = 1e-13
Identities = 87/102 (85%)
Strand = Plus / Minus

Query: 798 ggaatgcgacacatggaacatcattttgggtttacctgattcttggatatccattttggtg
857

||||| ||||||||| ||||| | | ||| || || |||||||||
Sbjct: 46287330 ggaatgtgacacatggaacattgttttggctgatctgcttattagatatccattttggtg
46287271

Query: 858 tgtatacgagaggagacatgacaacctttagaattttcttttc 899

||||||| ||||| || ||||||||| |||||
Sbjct: 46287270 tgtatacgagaggagattgaacgacctttagaattttattttc 46287229

Score = 81.8 bits (41), Expect = 5e-13
Identities = 113/137 (82%)
Strand = Plus / Minus

Query: 1204 atcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtt
1263

||||||| ||||| ||||||||| | || ||||| || |||||||
Sbjct: 35410010 atcgaactcaagaacgttgtgagtggttgccttttctaagtgcgtctttgatggccttgtt
35409951

Query: 1264 taatacttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttg
1323

|| ||||| ||||||||| || ||||| || || || ||||| ||||||||| |||||
Sbjct: 35409950 tagtacttccatataaaacttggccagatgcaagcaattttgggacttctctccctctttt
35409891

Query: 1324 gttgaacaatgcattac 1340

||||||| |||||
Sbjct: 35409890 gttgaacaatgcattac 35409874

Score = 77.8 bits (39), Expect = 7e-12
Identities = 105/127 (82%), Gaps = 10/127 (7%)
Strand = Plus / Minus

Query: 439 ttaattgtctatatttgtgttctgtttaaattgaaaacaatattatttttcatatgttgt
498

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Sbjct: 12244422 ttaattatttataatttatgttttgtttaaattgaaaataatattattttttatatgttgt
12244363

Query: 499 taattcttaatttcttatgcatattttatgttttatcatttttt-aagagttgaaatcct
557

|| || || ||||||||| ||||||| ||||||| ||||||||| |||||||

Sbjct: 12244362 ta-----tttttttgcataatTTTTGTTTTATTGTTTTTGAAGAGTTGAAATCCT
12244312

Query: 558 ttgtatt 564
|| ||||
Sbjct: 12244311 ttatatt 12244305

Score = 75.8 bits (38), Expect = 3e-11
Identities = 44/46 (95%)
Strand = Plus / Plus

Query: 554 tcctttgtatTTTTATTTTATTGATTATTATAATACATAATTTAA 599
|||||
Sbjct: 14618863 tcctttgtatTTTTATTTTATTGATTATTTAAATACATATTTAA 14618908

Score = 69.9 bits (35), Expect = 2e-09
Identities = 91/109 (83%), Gaps = 3/109 (2%)
Strand = Plus / Minus

Query: 1032 tactcatgggtgagcatgcttataaaca---acaacatgagaacaaaacatgtgcattttt
1088
|||||
Sbjct: 23485571 tactcatgggtgagcatgcttacaagcagcaacaacatgagaataagatatgtgtaatttc
23485512

Query: 1089 tgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaat 1137
| |||||
Sbjct: 23485511 ttgaatttttcacagtcacaccacctttcatttagcctgatcatgaaat 23485463

Score = 67.9 bits (34), Expect = 7e-09
Identities = 160/202 (79%)
Strand = Plus / Plus

Query: 1678 ccaaaccctccaaattcaaagagcttgcagaaactgggtgggtgtgcatatgtttatg
1737
|||||
Sbjct: 19454053 ccaaaccctccaaattgaaagagcttacaaaaattggtagtgggtgtgcacatgtttgtg
19454112

Query: 1738 tgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaa
1797
|||||

Query: 777 qcctgagcctacac 790

|| |||||
 Sbjct: 24206506 gcttgagcctacac 24206519

Score = 65.9 bits (33), Expect = 3e-08
 Identities = 39/41 (95%)
 Strand = Plus / Minus

Query: 544 agagttgaaatcctttgtatTTTTATTtTATTtgattatta 584
 |||||
 Sbjct: 12244020 agagttgaaatcctttgtatTTTaaTTTATTtTATTtatta 12243980

Score = 63.9 bits (32), Expect = 1e-07
 Identities = 47/52 (90%)
 Strand = Plus / Minus

Query: 436 ttattaattgtctatatTTTgtgttctgtTTaaattgaaaacaatattatttt 487
 |||||
 Sbjct: 16846873 ttattaattgtatatTTTatgatttgtTTaaattgaaaataatattatttt 16846822

Score = 63.9 bits (32), Expect = 1e-07
 Identities = 101/120 (84%), Gaps = 8/120 (6%)
 Strand = Plus / Plus

Query: 446 tctatatTTTgtgttctgtTTaaattgaaaacaatattatttttcatatgttTgtaattct 505
 |||||
 Sbjct: 24205931 tctatatTTTatgTTTTattTaaactaaaaataatattattttgtatatgttTgtg----t 24205986

Query: 506 taatttcttatgcatattTTTatgTTTTatcatttttt-aagagttgaaatcctttgtatt 564
 |||||
 Sbjct: 24205987 taatttttt--gcatatttt-tattttatcattttttgaagagttgaaatcctttgtatt 24206043

Score = 63.9 bits (32), Expect = 1e-07
 Identities = 83/100 (83%)
 Strand = Plus / Minus

Query: 800 aatgcgacacatggaacatcattttgggtttacctgattcttggatatccattttggtgtg
859

 |||||
Sbjct: 35410415 aatgcgacacatgaaacatagttttgggttgacctgattctcagatatccatttcggtatg
35410356

Query: 860 tatacgagaggagacatgacaacctttagaatttcttttc 899
 ||| || || |||| ||||| |||| | |||||

Sbjct: 35410355 gatatgaatggtgacaggacaaccgtagtacttcttttc 35410316

Score = 61.9 bits (31), Expect = 4e-07
Identities = 58/67 (86%)
Strand = Plus / Plus

Query: 1171 tgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtt
1230

 ||||| | ||| ||||| || |||| ||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 19434430 tgtctcttggaccaagaatcgtgtgtcacatcaatcgaactcaagaacagtgtgagtgtt
19434489

Query: 1231 tgccttt 1237
 |||||

Sbjct: 19434490 tgccttt 19434496

Score = 60.0 bits (30), Expect = 2e-06
Identities = 57/65 (87%), Gaps = 2/65 (3%)
Strand = Plus / Minus

Query: 1435 ccatcccatgcgagagtcactttt--cttgtggaatcttcctaagctaattaattgtta
1492

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Sbjct: 35139855 ccattccatgcgagagttcacttttttctcgtggaatctgactaagctaattaattgttt
35139796

Query: 1493 gttca 1497
 |||||

Sbjct: 35139795 gttca 35139791

Score = 60.0 bits (30), Expect = 2e-06
Identities = 51/58 (87%)
Strand = Plus / Minus

Query: 1432 ccaccatcccatgcgagagtcacttttcttggtggaatcttcctaagctaattaattg
1489

|||||
Sbjct: 35409763 ccaccatcccatgcgagagtcatttttcttgcgaaatctcgctgagccaattaattg
35409706

Score = 58.0 bits (29), Expect = 7e-06
Identities = 50/57 (87%)
Strand = Plus / Minus

Query: 519 atattttatgttttatcattttttaagagttgaaatcctttgtatttttattttatt 575

|||||
Sbjct: 22576077 atattttatgtttattcattttttaagagggaaaatcctttgtatttccattttatt
22576021

Score = 58.0 bits (29), Expect = 7e-06
Identities = 47/53 (88%)
Strand = Plus / Plus

Query: 544 agagttgaaatcctttgtatttttattttatttgattattataatacataatt 596

|||||
Sbjct: 24206361 agagttgaaattcctttgtattttcattttattttataattaaaatatataatt
24206413

Score = 58.0 bits (29), Expect = 7e-06
Identities = 42/45 (93%), Gaps = 1/45 (2%)
Strand = Plus / Plus

Query: 516 tgcataattttatgttttatcatttttt-aagagttgaaatccttt 559

|||||
Sbjct: 34854705 tgcataatttttgttttattatttttgaagagttgaaatccttt 34854749

Score = 58.0 bits (29), Expect = 7e-06
Identities = 44/49 (89%)
Strand = Plus / Plus

Query: 160 agagttttttttatccaaataataaaaaaaaaaattaattatttaccctaa 208

|||||
Sbjct: 42640300 agagttttttttatctaaataatacaaatatattaattatataaccctaa 42640348

Score = 54.0 bits (27), Expect = 1e-04
Identities = 30/31 (96%)
Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtcacttttct 1461
|||||||
Sbjct: 19439283 gccaccatcccatgcgagagttcacttttct 19439313

Score = 54.0 bits (27), Expect = 1e-04
Identities = 45/50 (90%), Gaps = 2/50 (4%)
Strand = Plus / Minus

Query: 237 ttttttccttagttaagaaacaccgatttcttaattacatttttttatac 286
|||||
Sbjct: 36392688 ttttttcttagttaagaaat--cgatttcttaactacatttttttatac 36392641

Score = 54.0 bits (27), Expect = 1e-04
Identities = 51/59 (86%)
Strand = Plus / Minus

Query: 1431 gccaccatcccatgcgagagtcacttttcttgtggaatcttcctaagctaattaattg
1489
|||||||
Sbjct: 46286678 gccaccatcccatgcgaaagtctacttttctcgcgaaatctccctaagtcaattaattg
46286620

Score = 52.0 bits (26), Expect = 4e-04
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 703 aaaatattttaatttgaaataataacaaca 732
|||||||
Sbjct: 46657432 aaaatattttaatttgaaataataacaaca 46657403

Score = 50.1 bits (25), Expect = 0.002
Identities = 178/229 (77%)
Strand = Plus / Plus

Query: 822 tttgggtttacctgattccttgatatccattttgggtgtgtatacgagaggagacatgacaa
881

||||| ||| |||| | ||||| ||||| || || || ||||| | || |
Sbjct: 19434080 tttgggtgacctagttcttagatatccattttgggtatggatatgagaggagttaagatga
19434139

Query: 882 cctttagaatttcttttcatttttgggttggggcaaattcctggcttgtgacatggtgac
941

||||| | ||||| ||| | |||| ||| | || ||||| ||||| |||| |
Sbjct: 19434140 cctttagttacttcttttcttttctaggttaggggagatcattggctcatgacacggtggc
19434199

Query: 942 caacatgcttcattgcacaatttcccaagtaatcatttgtacatggttatagatacttttc
1001

|| | ||||| |||| | || |||| |||| | || || ||||| ||||| |||||
Sbjct: 19434200 taataggtttcattgcataattctctaaataatcctttgcatacgttggagacactttcc
19434259

Query: 1002 agcgtatacacaagatgtatgtagttcctatactcatggtgagcatgct 1050

| ||||| || ||||| |||| | ||||| ||||| ||||| |||||
Sbjct: 19434260 aatgtatacacgaaatgtatgtagttttgtactcatgatgagcatgct 19434308

Score = 50.1 bits (25), Expect = 0.002
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 548 ttgaaatcctttgtatttttattttatttgattatta 584

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46287570 ttgaaatcctttgtattttcatattacttgattatta 46287534

Score = 48.1 bits (24), Expect = 0.006
Identities = 36/40 (90%)
Strand = Plus / Plus

Query: 1377 agattttgtgttttcttgagtaccaaattaattaactcag 1416

||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 24249922 agatttcgtattttcttgactaccaaattaattgactcag 24249961

Score = 48.1 bits (24), Expect = 0.006
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 1032 tactcatggtgagcatgcttataa 1055
 ||||||||||||||||||||
Sbjct: 35140284 tactcatggtgagcatgcttataa 35140261

Score = 48.1 bits (24), Expect = 0.006
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 554 tcctttgtatTTTTATTTATTTGATTATTATAATA 589
 ||||| ||||| |||||||||||||||| ||||
Sbjct: 46122526 tcctttatatTTTcattttatttgattattaaaata 46122561

Score = 46.1 bits (23), Expect = 0.025
Identities = 38/43 (88%)
Strand = Plus / Plus

Query: 166 ttttttatccaaataataaaaaaaaaaattaattatttaccctaaa 208
 ||||| ||||||||||||| ||||||||| || |||||
Sbjct: 16842816 ttttttactcaaataataaaaaataaattaattatgtatccaaa 16842858

Score = 46.1 bits (23), Expect = 0.025
Identities = 95/119 (79%)
Strand = Plus / Minus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224
 ||||||||||||| || ||||||| || |||| ||||||| ||||| |||
Sbjct: 35140144 gttaattgtctcctacacttagaattgtgcatcacattgatcgaacttgagaacatcgtg
35140085

Query: 1225 agagtttgccTTTTCTGTATGTCTTTCATAGCCTTGTTTAATACTTTGTATAAACTT
1283
 ||||| || ||| || ||| ||||| ||| ||| ||| ||| |||||||||
Sbjct: 35140084 agagttggcatttcttTGTGTGTCTTCCATGGCCTCATTGGTATTTATGTATAAACTT
35140026

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatatttaa 635
|||||
Sbjct: 36455160 gaaattaaaaaatatatatttaa 36455138

Score = 46.1 bits (23), Expect = 0.025
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 1520 acaaataattttttattataaaacaaaca 1546
|||||
Sbjct: 38361979 acaaataattttttattataaaaccaaca 38362005

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 8219879 aaattaaaaaatatatatttaa 8219900

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 665 aaattacaaaatagatatgaaa 686
|||||
Sbjct: 14192956 aaattacaaaatagatatgaaa 14192935

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 492 atgttggttaattcttaatttcttatg 517
|||||
Sbjct: 18313462 atgtttttaattcttaatttcttatg 18313487

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Plus

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Score = 42.1 bits (21), Expect = 0.39
Identities = 42/49 (85%)
Strand = Plus / Minus

```
Query: 1441      catgcgagagtccacttttcttggtggaatcttcctaagctaattaattg 1489
                ||| ||||| | | ||||| || | ||||| |||
Sbjct: 12243103 catgcaagaqtccacttgtttcgtggaatcttactgaaccaattaattg 12243055
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 166 ttttttatccaaataataaaaaaaaaaattaattattta 202
 ||||| |||| ||| |||| ||||| |||||
Sbjct: 14176661 ttttttatccaaaaaatataaataaataaattattta 14176625

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttt 407
 ||||| ||||| ||||| ||||| |||||
Sbjct: 14800048 cttttttttttgttttgtttt 14800068

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattta 634
 ||||| ||||| ||||| ||||| |||||
Sbjct: 16192432 aaattaaaaaatatatattta 16192452

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 612 tgaaattaaaaaatatatatt 632
 ||||| ||||| ||||| ||||| |||||
Sbjct: 16564049 tgaaattaaaaaatatatatt 16564029

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgttttaaa 410
 ||||| ||||| ||||| ||||| |||||
Sbjct: 20971004 ttttttttgttttgttttaaa 20971024

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaat 196
 |||||
Sbjct: 22138093 aaataataaaaaaaaaattaat 22138113

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 563 tttttattttatttgattattataa 587
 |||||
Sbjct: 22340338 tttttattttattttattattataa 22340362

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattta 634
 |||||
Sbjct: 23822898 aaattaaaaaatatatattta 23822918

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgttttaa 410
 |||||
Sbjct: 24918493 tttttttgttttgttttaa 24918513

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaat 196
 |||||
Sbjct: 33772710 aaataataaaaaaaaaattaat 33772730

Score = 42.1 bits (21), Expect = 0.39
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaattatttaccctaaa 208
 ||||| ||| ||||| |||||
Sbjct: 35394171 aaataatacaataaatttattatttaccctaaa 35394203

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaaaatatatatttaa 635
 |||||
Sbjct: 39261098 ttgaaattaaaaaatatatataattaa 39261074

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 552 aatcctttgtatttttattttattt 576
 ||||| |||||
Sbjct: 41467172 aatcctttgaatttttattttattt 41467196

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 1319 cttttggtgaacaatgcattacacc 1343
 |||| |||||
Sbjct: 46656790 cttttggtgaacaatgcattacacc 46656766

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 166      ttttttatccaaataataaa 185
              |||||
Sbjct: 1248280 ttttttatccaaataataaa 1248299
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 703      aaaatatttaaatttgaaat 722
              |||||
Sbjct: 2501369 aaaatatttaaatttgaaat 2501350
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 388      ttttttttttgttttgtttt 407
              |||||
Sbjct: 2559138 ttttttttttgttttgtttt 2559119
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 614      aaattaaaaaatatatattt 633
              |||||
Sbjct: 2671156 aaattaaaaaatatatattt 2671175
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 421      tttttattttttttgttatt 440
              |||||
Sbjct: 5952454 tttttattttttttgttatt 5952473
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 153 gaaaatgagagtttttttta 172
|||||||
Sbjct: 6135714 gaaaatgagagtttttttta 6135733

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 521 attttatgttttatcatttttta 544
|||||||
Sbjct: 7125198 attttatgttttataatttttta 7125221

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 165 tttttttatccaaataaaaaaaaaat 192
|||||||
Sbjct: 7377534 tttttttattcaaaaaataaaaaaaaaat 7377507

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
|||||||
Sbjct: 12046806 ttttttttttgttttgtttt 12046825

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 182 taaaaaaaaaattaattatttacc 205
|||||||
Sbjct: 16305750 taaaaaaaaagtaattatttacc 16305773

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 408 aaaattgtttgtatTTTTtattttt 431
 |||||
Sbjct: 17007053 aaaattgttttatttttattttt 17007076

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaa 195
 |||||
Sbjct: 23178510 aaataataaaaaaaaaattaa 23178529

Score = 40.1 bits (20), Expect = 1.5
Identities = 41/48 (85%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcattttggtttacctgattcttggatatccattt 852
 |||||
Sbjct: 24206556 gacacatgcaacatcactttggttgatctagttctcggatatccattt 24206603

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 877 gacaacctttagaatttctt 896
 |||||
Sbjct: 35140438 gacaacctttagaatttctt 35140419

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 183 aaaaaaaaaattaattattta 202
 |||||
Sbjct: 35293826 aaaaaaaaaattaattattta 35293807

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 182 taaaaaaaaattaattattt 201
 |||||
Sbjct: 36242406 taaaaaaaaattaattattt 36242387

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 38740076 aaattaaaaaatatatattt 38740057

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 38887038 aaattaaaaaatatatattt 38887019

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaattaa 195
 |||||
Sbjct: 40407322 aaataataaaaaaaaaattaa 40407303

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)

Strand = Plus / Plus

Query: 734 aatttttaaatacaacaat 753
 |||||||
Sbjct: 43912031 aatttttaaatacaacaat 43912050

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 198 atttacccaaaaaattattt 217
 |||||||
Sbjct: 45078228 atttacccaaaaaattattt 45078247

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaattatttta 202
 |||||||
Sbjct: 45987011 taataaaaaaaaaattaattcttta 45986988

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 607 ttaattgaaattaaaaaatatata 630
 |||||||
Sbjct: 46099264 ttaattgatattaaaaaatatata 46099241

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||||
Sbjct: 46855038 ttttttttttgttttgtttt 46855057

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 558 ttgtatTTTTtattttattt 576
 |||||
Sbjct: 802114 ttgtatTTTTtattttattt 802096

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatTTTTtattataaaa 1540
 |||||
Sbjct: 1706766 aaatatTTTTtattataaaa 1706748

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaatt 197
 |||||
Sbjct: 2284090 taataaaaaaaaaattaatt 2284072

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 520 tattttatgttttatcattttt 542
 |||||
Sbjct: 3041200 tattttatgttttattattttt 3041222

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatTTTTtattataaaa 1540
 |||||
Sbjct: 3078052 aaatatTTTTtattataaaa 3078070

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 417 tgtatatttttatttttttttg 435
 |||||
Sbjct: 3783701 tgtatatttttatttttttttg 3783683

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 578 attattataatacataatt 596
 |||||
Sbjct: 4182450 attattataatacataatt 4182468

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1527 tttttattataaaaacaaac 1545
 |||||
Sbjct: 4826635 tttttattataaaaacaaac 4826653

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 1594 aaataatacaattacaatcaa 1616
 |||||
Sbjct: 4913345 aaataatacaattacaacaaat 4913367

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 179 taataaaaaaaaaattaatt 197
 |||||
Sbjct: 6474911 taataaaaaaaaaattaatt 6474929

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 380 ttaattgcttttttttttgtttt 402
 ||||| |||||
Sbjct: 7084450 ttaattgcttttttttttgtttt 7084472

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 564 ttttattttatttgattattata 586
 ||||| |||||
Sbjct: 8141828 ttttattttatttgaatattata 8141850

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 391 tttttttgttttgttttaa 409
 |||||
Sbjct: 8444329 tttttttgttttgttttaa 8444311

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 329 ttttttttttcaaaaccaa 347
 |||||
Sbjct: 8792976 ttttttttttcaaaaccaa 8792958

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

Query: 420 atttttatTTTTTTTTgtta 438
 ||||||||||||||||||
Sbjct: 9593848 atttttatTTTTTTTTgtta 9593866

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 679 atatgaaattacaaacaat 697
 ||||||||||||||||||
Sbjct: 9763407 atatgaaattacaaacaat 9763389

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 179 taataaaaaaaaaattaattatTT 201
 ||||||||||||| |||||||||||
Sbjct: 10014943 taataaaaaaaaaatttaattatTT 10014965

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatTTTTtattataaaa 1540
 ||||||||||||||||||
Sbjct: 11847152 aaatatTTTTtattataaaa 11847134

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Plus

Query: 288 tttagaaattggtttccttgaaccgatttc 318
 |||| ||||| ||||||| |||||||||||
Sbjct: 12244540 tttaaaaattagtttccttaggaaccgatttc 12244570

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 379 ctttaattgcttttttttttgttt 401
 ||||| |||||
Sbjct: 12600508 ctttaattgcttttttttttgttt 12600530

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttt 406
 |||||
Sbjct: 12963035 ttttttttttgttttgttt 12963017

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1397 taccaaattaattaactca 1415
 |||||
Sbjct: 14230393 taccaaattaattaactca 14230375

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 417 tgtatttttattttttttg 435
 |||||
Sbjct: 14514350 tgtatttttattttttttg 14514368

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 16045598 aaatatattttattataaaa 16045580

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 16065196 aaatatattttattataaaa 16065214

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 418 gtatttttattttttttgttatt 440
 |||||
Sbjct: 16776135 gtattttttttttttttgttatt 16776113

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 413 tgtttgattttttattttt 431
 |||||
Sbjct: 16908809 tgtttgattttttattttt 16908791

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 122 aaaaagaaaaagaaatgc 140
 |||||
Sbjct: 17075180 aaaaagaaaaagaaatgc 17075162

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 565 tttatttttatttgattattataa 587
 |||||
Sbjct: 17425063 tttatttttattttattattataa 17425085

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatatttttattataaaa 1540
 |||||
Sbjct: 17490093 aaatatatttttattataaaa 17490075

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaaaatatat 629
 |||||
Sbjct: 18626906 ttgaaattaaaaaatatat 18626888

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 328 attttttttttcaaaaccaagttaaga 354
 |||||
Sbjct: 18987066 attttttttttcaaaatcaggttaaga 18987092

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1582 ctacaaatcatataaataat 1600
 |||||
Sbjct: 19453989 ctacaaatcatataaataat 19454007

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)

Strand = Plus / Minus

```
Query: 461      tgtttaaattgaaaacaatattatttt 487
              ||||| ||||| ||||| |||||
Sbjct: 19813981 tgtttaaattgaaaaaatattgtttt 19813955
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

```
Query: 269      aattacatttttttatacattta 291
              ||||| ||||| ||||| |||||
Sbjct: 20706389 aattatatttttttatacattta 20706367
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 1522     aaatattttttattataaaa 1540
              ||||| ||||| ||||| |||||
Sbjct: 21374307 aaatattttttattataaaa 21374289
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 1522     aaatattttttattataaaa 1540
              ||||| ||||| ||||| |||||
Sbjct: 21776556 aaatattttttattataaaa 21776574
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

```
Query: 380      ttaattgctttttttttttgtttt 402
              ||||| ||||| ||||| |||||
Sbjct: 23471223 ttaattgcttttttttttttttttt 23471201
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 37/43 (86%)
Strand = Plus / Plus

Query: 1419 tccccatcgccagccaccatcccatgcgagagtcacttttct 1461
 ||||| ||| ||| ||||| ||||| |||||
Sbjct: 24249981 tccccatcgctcggccattatctcatgcgagagttcacttttct 24250023

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
 ||||| ||||| |||||
Sbjct: 30519532 ttttttttttgttttgttt 30519550

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1554 atacaacaatgaacaacac 1572
 ||||| ||||| ||||| |||||
Sbjct: 36153687 atacaacaatgaacaacac 36153705

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaattaattat 199
 ||||| ||||| |||||
Sbjct: 37057898 aataataaaaaacaattaattat 37057876

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 325 ttcattttttttttcaaaa 343
 ||||| ||||| |||||
Sbjct: 37903069 ttcattttttttttcaaaa 37903087

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 315 tttcaaaatgttcattttttttt 337
 ||||| |||||||||||||||
Sbjct: 37942368 tttcaacatgttcattttttttt 37942390

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 275 atttttttatacatTTtaga 293
 |||||||||||||||
Sbjct: 38172533 atttttttatacatTTtaga 38172551

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatTTtttattataaaa 1540
 |||||||||||||||
Sbjct: 38587038 aaatatTTtttattataaaa 38587056

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttTgtttTgttt 407
 |||||||||||||||
Sbjct: 39240255 ttttttttTgtttTgttt 39240273

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 186 aaaaaattaattatttacccaaa 208
|||||||
Sbjct: 40071346 aaaaaattaattatttacacaaa 40071324

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 419 tatttttattttttttgtt 437
|||||||
Sbjct: 40151042 tatttttattttttttgtt 40151024

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 712 aaatttgaaataataacaac 730
|||||||
Sbjct: 40583708 aaatttgaaataataacaac 40583726

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 419 tatttttattttttttgttatta 441
||||||| |||||
Sbjct: 41127814 tatttttattgtttttgttatta 41127836

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
|||||||
Sbjct: 41525770 tttttttttgttttgtttt 41525752

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)

Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaaaattgtttg 418
 |||||
Sbjct: 41563656 ttttttttttgtttgggtttaaaattatttg 41563686

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 708 atttaaatttgaaataata 726
 |||||
Sbjct: 41799562 atttaaatttgaaataata 41799544

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttttgttttgtttt 407
 |||||
Sbjct: 42216913 ttttttttttgttttgtttt 42216931

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 42463739 aaatatattttattataaaa 42463721

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 319 aaaatgttcattttttttt 337
 |||||
Sbjct: 43134591 aaaatgttcattttttttt 43134573

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatTTTTATTTTT 432
 |||||
Sbjct: 43777754 gtttgtatTTTTATTTTT 43777736

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 566 ttatTTTATTTgattattataat 588
 |||||
Sbjct: 44181605 ttatTTTATTTattattataat 44181627

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 325 ttcattTTTTTTTTTcaaaa 343
 |||||
Sbjct: 44256721 ttcattTTTTTTTTTcaaaa 44256703

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatatata 630
 |||||
Sbjct: 44957235 taatttaaattaaaaaatatata 44957213

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 121 gaaaaagaaaaagaaatg 139
 |||||
Sbjct: 45738798 gaaaaagaaaaagaaatg 45738816

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 516 tgcataatatttatgttttatcatttttt 542
 ||||| ||||| ||||| |||||
Sbjct: 46287775 tgcataatatttatgttttatcatgtttt 46287749

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 424 ttattttttttgttattaa 442
 ||||| ||||| ||||| |||||
Sbjct: 46335584 ttattttttttgttattaa 46335566

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 1257 ccttgtttaataacttttgtataaactt 1283
 ||||| || ||||| ||||| |||||
Sbjct: 46656852 ccttgtttagtaattttgtataaactt 46656826

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 ||||| ||||| ||||| |||||
Sbjct: 46795643 tttttttttgttttgtttt 46795625

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 277 ttttttatacatttagaaattggtttc 303
||||| ||||| ||||| |||||
Sbjct: 46842793 ttttttttacattgagaaattggtttc 46842819

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaaa 410
||||| ||||| ||||| ||||| |||||
Sbjct: 46855043 tttttgttttgttttgttttaaa 46855065

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 679 atatgaaattacaaacaat 697
||||| ||||| ||||| ||||| |||||
Sbjct: 46937870 atatgaaattacaaacaat 46937852

>[gb|CM000844.1](#) Glycine max chromosome 11, whole genome shotgun sequence
Length = 39172790

Score = 387 bits (195), Expect = e-105
Identities = 519/624 (83%), Gaps = 11/624 (1%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
||||| ||||| ||||| ||||| ||||| || || |||| ||||| ||||| |||||
Sbjct: 18406474 atgcgatacatggaacattattttggttgactcggttctcagatatctatttcggtgtgt
18406533

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
||||| ||||| || || ||||| ||||| ||||| || |||| || ||||| |||||
Sbjct: 18406534 atacgagaggagaaaggatgacctttagaatttcttttccttcttgagtcgaggcagatt
18406593

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980
||||| || || ||||| || |||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18406594 tttggctcatggcacggtgaccaatacgcttctgctgcaaaatttcacaaataatcctttg
18406653

Query: 981 tacatgttatagatacttttcagcgtatacacaagatgtatgtag---ttcctatactc
 1036

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 Sbjct: 18406654 tatatggttgagacactttccaacgtatacataggatgtatgtatatatattttctatacaa
 18406713

Query: 1037 atggtgagcatgcttataa---acaacaacatgagaacaaaacatgtgcattttttgaaa
 1093

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 Sbjct: 18406714 atggagagcatgcttacaagtaacaacaacatgagaacaagacatgtgcactttttggaa
 18406773

Query: 1094 tttgtcacagtcacactacctttcatctagcttgaccatgaaatttctcactagttgaat
 1153

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 Sbjct: 18406774 tttgagatagtcacaccacctttcatctagcctgaccatgaaatttctagcaagtcgaac
 18406833

Query: 1154 ctctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactca
 1213

 ||||||| ||||||| ||||||| ||||||| ||||||| || |||| | || |||||
 Sbjct: 18406834 ctctctcag--gttaattgtctcctagaccaagaatcatgtgtcaaattgaccaaactca
 18406891

Query: 1214 agaacaatgtgagagtttgcccttttctgtatgtctttcatagccttgtttaatactttt
 1273

 ||||||| ||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 18406892 agaacaatgtgagagtttacctttctctgtgtgtcttccatagtcttgcttagtacttgt
 18406951

Query: 1274 gtataaacttcaccaaattgtaatcactcttgcgacttctctccccctttgggtgaacaat
 1333

 ||||||| || ||||||| ||||||| || || | ||||||| ||||||| ||||||| ||
 Sbjct: 18406952 gtataaatttgaccaaattgtaatcattgttggtggtctctctccctctttgggtgaacaat
 18407011

Query: 1334 gcattacacctagtatagggttgattttacca--acacacattgccagattttgtggttttc
 1391

 ||||||| || ||||||| ||||||| ||||||| || ||||| ||||||| |||||||
 Sbjct: 18407012 gcattacaccttgatatagggttgattttaccagtgtactcattggtagattttgtggttttc
 18407071

Query: 1392 ttgagtaccaaattaattaactca 1415

 ||||||| ||||||| |||||
 Sbjct: 18407072 ttgagtaccaaattaattgactca 18407095

Score = 287 bits (145), Expect = 4e-75
Identities = 307/356 (86%), Gaps = 10/356 (2%)
Strand = Plus / Plus

Query: 436 ttattaattgtctatatatttgtgttctgtttaaattgaaaacaatattatttttcatatgt
495
 ||||| | ||||| ||| | ||||| ||||| ||||| |||||
Sbjct: 32828939 ttattaattttttatatatttatgttttctttaaaactgaaaataatattattttacatagt
32828998

Query: 496 tgttaattcttaattttcttat-gcatattttatgttttatcattttttaagagttgaaat
554
 ||| ||||| || | ||||| ||||| ||||| ||||| |||||
Sbjct: 32828999 tgtt----cttaatttttttttgcataattttatatattttatcatttttgaagagttgaaaa
32829054

Query: 555 cctttgtatttttattttatttgattattataataacataattaacaacaacttaattga
614
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 32829055 tctttgtatttttattttatttgattattaaaatatagaattaatcaataacttagtgga
32829114

Query: 615 aattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaattacaaa
674
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 32829115 aattaaaatatatatatttaacaaacaagtagaattgaactaaa---ttaaattacaca
32829171

Query: 675 atagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataatacaacaaaa
734
 ||| ||| ||||| || | ||||| ||||| ||||| ||||| ||| |||
Sbjct: 32829172 atacataaaaattacaaataattgaacaaaatattttaaatttgaaataatagaac-aaa
32829230

Query: 735 attttaaaatacaaaacaatatggcataaaattaatgttggtggcctgagcctacac 790
 ||||| ||||| ||||| ||||| ||| ||| ||| ||| ||||| |||||
Sbjct: 32829231 attttaaaa-acaaacaatattacataaaacttaacgttgctggttgagcctacac
32829285

Score = 242 bits (122), Expect = 2e-61
Identities = 276/326 (84%), Gaps = 1/326 (0%)
Strand = Plus / Plus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
1613
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 15370569 atacaacaatgaaaaacacacatgatgactacaaatcattaagtagtaaaataaaaatca
15370628

Query: 1614 aataatttgaggaggagggtcttcaaaacttgattcaagggttcattgtatcatcgagggtat
1673

||||||| ||| || |||||
Sbjct: 15370629 aataatttcggg-ggttttcttcaaaacttgattcaagggttcatttttttattgagggtat
15370687

Query: 1674 tcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtgtgcatatggt
1733

||| |||||
Sbjct: 15370688 tcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtgtgcatatggt
15370747

Query: 1734 tatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtttc
1793

| |||| |||| |||| ||||| ||| |||||
Sbjct: 15370748 tatgtgagtggtctctacagtgataatataactcaaggcatgtgagattgaagagtttc
15370807

Query: 1794 ccaaatatagaaaacatagtaattatttctcatcatcttgcagcatacatgcctgtac
1853

|| ||| ||||| |||| ||||| ||| ||| ||||| |||||
Sbjct: 15370808 ttgaacatacaaaacatagtcattacgtcctcatcatcatacaaatatgcagcctgtac
15370867

Query: 1854 tgaaaacaatcaccaacaaatgatac 1879

| |||||
Sbjct: 15370868 tagtcacaatcaccaacaaatgatac 15370893

Score = 238 bits (120), Expect = 3e-60
Identities = 498/620 (80%), Gaps = 8/620 (1%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
860

||||||| ||||| ||||| ||||| |||||
Sbjct: 31947551 atgcgacacatggaacatcattttgggtttctcagttctcaggtatacatttcagtggt
31947610

Query: 861 atacgagaggagacatgacaacctttagaattttcttttcatttttgggttggggcaaatt
920

||| || | |||| | || ||| ||||| ||||| ||| ||||| |||||
Sbjct: 31947611 atatgaaaagagataaaacgacccttagaattttcttttccttcttgggtcatggcaaatt
31947670

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980
||||| ||||||| ||||||| ||| || ||||||||| ||| ||| |||
Sbjct: 31947671 attggctcatgacatgatgaccaatatgttttgttgacaaattctccaacaatcctttg
31947730

Query: 981 tacatggttatagataacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
1040
|| | || ||| ||||| || ||||||||||||||||||||| || || ||||||| |
Sbjct: 31947731 tatacattggagacactttccaacgtatacacaagatgtatgtaatttctgtactcatcg
31947790

Query: 1041 tgagcatgcttataa---acaacaacatgagaacaaaacatgtgcattttttgaaatttg
1097
||||||||||| || ||| ||||||||| || ||||||| | |||||||||||||
Sbjct: 31947791 tgagcatgcttacaagtaacaataacatgagaataagacatgtgtaatttttgaaatttg
31947850

Query: 1098 tcacagtcacactacctttcatctagcttgaccatgaaatttctcactagttgaatctct
1157
||| ||||||| ||||||| || | ||| ||||||| | || ||| |||
Sbjct: 31947851 tcatagtcacaccacctttcctccaacccgaccctgaaatttttagtgggctgaacctct
31947910

Query: 1158 ctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaa
1217
||||| |||||| | ||||| ||||||| || ||||||| |||||||||||||
Sbjct: 31947911 ctctca--ttaattttc-cctaaactaagaaccgtgtgtcgcacgatcgaactcaagat
31947967

Query: 1218 caatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgtat
1277
|||| | ||||||| |||| | ||| ||||||| ||||||||||||| ||||| |||||
Sbjct: 31947968 caatataagagtttgtctttcttgtgtgtcttccatagccttgtttagtacttgtgtat
31948027

Query: 1278 aaacttcaccaaataatgtaatacactcttgcgacttctctccccctttgggtgaacaatgcat
1337
||||| |||||| | | | ||| ||||| ||||||| ||||||||||| |||||||
Sbjct: 31948028 aaacttggtcaaataatgcatttattgttgtgacttttctccctctttgggtgagcaatgcat
31948087

Query: 1338 tacacctagtatagggttgattttaccaac--acacattgccagattttgtgttttcttga
1395
||||||| ||||||||||||||||| || | ||| ||||| || ||||| |||||||||
Sbjct: 31948088 tacaccttctatagggttgattttatcatcggacatatattggcaaatctcatgttttcttga
31948147

Score = 210 bits (106), Expect = 7e-52
Identities = 271/325 (83%), Gaps = 7/325 (2%)
Strand = Plus / Plus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
1613

|||||
Sbjct: 20681149 atacaacaatgaacaacatgtatgatgactagaaatcattaaataataaaataacaatca
20681208

Query: 1614 aataatttggggagggggtcttcaaaacttgattcaagggtcattgtatcatcgaggtat
1673

|||||
Sbjct: 20681209 aataaattaggggatttttgttcaaaactcgagtcaagggtcattgcttcattgaggtat
20681268

Query: 1674 tcacccaaaccctccaaattcaaagagcttgcagaaactgggtgggtgtgcatatggt
1733

|||||
Sbjct: 20681269 tcatcaaaaccctccaaattcaaaaagctcgtagacattgggtgggtgtgacatggt
20681328

Query: 1734 tatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtttc
1793

|||
Sbjct: 20681329 tgtattggtgtgtctatagtggtaagatataactcaaagcatgtgaggttgagag---
20681384

Query: 1794 ccaaatatagaaaacatagtaattatttcctcatcatcttgcagcatatgcctgtac
1853

|||||
Sbjct: 20681385 --aaatatagaaagcatagtaattatgtcctcttcatcttgcagtatgcatg-cctatac
20681441

Query: 1854 tgaaaacaatcaccaacaaatgata 1878

|||||
Sbjct: 20681442 tgaaaacaatcaccaacaaatgata 20681466

Score = 186 bits (94), Expect = 1e-44
Identities = 265/319 (83%), Gaps = 6/319 (1%)
Strand = Plus / Minus

Query: 1020 atgtagttcctatactcatgggtgagcatgctt----ataaacaacaacatgagaacaaaa
1075

|||||
Sbjct: 15060977 atgtagttcctatactcatggggagcattttttacaagcagcaacaacatgagaacaagg
15060918

[illegible]

Sbjct: 18406377 ataacaaaaattttaaaatacaagaatatgacataaaacttaacattttttgcttgagcc
18406436

Query: 786 taca 789
 ||||
Sbjct: 18406437 taca 18406440

Score = 182 bits (92), Expect = 2e-43
Identities = 140/156 (89%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttgatatccattttggtgtgt
860
 |||||
Sbjct: 15061319 atgcgacacatggaacatcattttggttgacgtgattctcggatgtccattttgatatgt
15061260

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
 |||| |
Sbjct: 15061259 atacaagaggagacaagacaacctttagaatttcttttcatttttgggtcggggcagatt
15061200

Query: 921 cttggcttggtgacatggtgaccaacatgcttcattg 956
 ||||| |
Sbjct: 15061199 cttggctcatgacacggtgtccaatatgcttcattg 15061164

Score = 182 bits (92), Expect = 2e-43
Identities = 162/184 (88%), Gaps = 1/184 (0%)
Strand = Plus / Plus

Query: 608 taattgaaattaa-aaaatatatatatttaactgacaagttgacttgaactaaaatatttaa
666
 |||||
Sbjct: 20610941 taattgaaattaagaaaagatatatttaacaaacaagttgaattgaactaaaatatttaa
20611000

Query: 667 attacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataata
726
 ||| |
Sbjct: 20611001 attgtaaaaaagatataaaattacaaataatagaacaaaatatttaaatttgaaacaata
20611060

Query: 727 caacaaaaatTTTtaaatacaaaacaatatggcataaaattaatgTTgTTggcctgagcct
786

||||| ||||||||||||||| |||||| |||||| ||| |||
Sbjct: 20611061 caacaatTTTTTTtaaatacaaaagaatatgacataaaacttaacagtgTTggccttgaccct
20611120

Query: 787 acac 790

||||
Sbjct: 20611121 acac 20611124

Score = 174 bits (88), Expect = 4e-41
Identities = 161/184 (87%), Gaps = 1/184 (0%)
Strand = Plus / Plus

Query: 608 taattgaaattaa-aaaatatatatTTtaactgacaagTTgacttgaactaaaatatttaa
666

||||||||||||| ||| |||||||| || ||||||||| |||||||||||||||||||
Sbjct: 20598301 taattgaaattaagaaaagatatatttcacaaacaagTTgaattgaactaaaatatttaa
20598360

Query: 667 attacaaaatagatatgaaattacaaacaatagaacaaaatattTaaatttgaaataata
726

||| |||| |||||| ||||||||||| ||||||||||||||||||| |||||||
Sbjct: 20598361 attgtaaaaaagatataaaattacaaataatagaacaaaatattTaaatttgaaacaata
20598420

Query: 727 caacaaaaatTTTtaaatacaaaacaatatggcataaaattaatgTTgTTggcctgagcct
786

||||| ||||||||||||||| |||||| |||||| ||| |||
Sbjct: 20598421 caacaatTTTTTTtaaatacaaaagaatatgacataaaacttaacagtgTTggccttgaccct
20598480

Query: 787 acac 790

||||
Sbjct: 20598481 acac 20598484

Score = 155 bits (78), Expect = 4e-35
Identities = 184/218 (84%), Gaps = 1/218 (0%)
Strand = Plus / Plus

Query: 1662 tcatcgaggTattcaccCAAaccctCAAattCAAagagctTgcagaaactggTggTggT
1721

||||| |||||||| ||||| ||||||||||| ||||||||| ||||| |||||||||
Sbjct: 26160021 tcatcaaggTattcgtCAAatcctCAAattCTaagagctTgtagaaattggTggTggT
26160080

Query: 1722 tgtgcatatgtttatgtgggtgtgtctacggtga-taacataaaactcaaggcatgtgaa
 1780

||||| |||| | ||||||| ||| ||| ||||||| ||||||| |||||||
 Sbjct: 26160081 tgtgcacatgtctgtgtgggtgcgtccttagtgagtaacatataactcaaaacatgtgag
 26160140

Query: 1781 gttgaagagtttcccaaataatagaaaacatagtaattatttcctcatcatcttgcagcat
 1840

|||| | ||||||| ||||||| ||||||| ||||||| ||||||| || ||
 Sbjct: 26160141 gttggggagtttcccaaataatagaaaaaatagttattatgtccttatcatcttgtagtat
 26160200

Query: 1841 acatgccctgtactgaaaacaatcaccaacaaatgata 1878

|||| | ||||||| ||||||| |||| |||||||
 Sbjct: 26160201 acatgtcccatactgaacacaatccccaataaatgata 26160238

Score = 155 bits (78), Expect = 4e-35
 Identities = 150/174 (86%)
 Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaattacaa
 673

|||| |||||| | |||||| ||| ||||||| ||||||| ||||||| ||||||| || ||
 Sbjct: 31947342 aaataaaaaaaaaacatattttactaacaagttgaattgaactaaaatattttaaatcataa
 31947401

Query: 674 aatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataataacaacaaa
 733

|||| |||| ||||||| || | ||||||| ||||||| ||||||| ||||||| || ||
 Sbjct: 31947402 aatatatataaaattacaaaaagtagaacaaaatctaaatttgaaacaataacaacgaa
 31947461

Query: 734 aattttaaaatacaacaatatggcataaaattaatggttggtggcctgagccta 787

|||||| |||||| | |||| |||||| |||| ||||||| |||||||
 Sbjct: 31947462 aattttataatacacagaatatgacataaatttaacggttggtggccttaagccta
 31947515

Score = 149 bits (75), Expect = 2e-33
 Identities = 209/252 (82%), Gaps = 5/252 (1%)
 Strand = Plus / Plus

Query: 995 acttttcagcgtatacacagaatgtatgttagttcctatactcatgggtgagcatgcttata
 1054

Sbjct: 15366966
15367025

Query: 1055
1111

Sbjct: 15367026
15367085

Query: 1112
1171

Sbjct: 15367086
15367143

Query: 1172
1231

Sbjct: 15367144
15367203

Query: 1232
gcctttttctgt 1243

Sbjct: 15367204
gcctttctctgt 15367215

Score = 147 bits (74), Expect = 9e-33
Identities = 278/344 (80%), Gaps = 4/344 (1%)
Strand = Plus / Plus

Query: 801
860

Sbjct: 20598516
20598575

Query: 861
920

Sbjct: 20598576
20598635

Query: 921
980

Sbjct: 20598636
20598695

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Score = 139 bits (70), Expect = 2e-30
Identities = 113/126 (89%), Gaps = 1/126 (0%)
Strand = Plus / Minus

|||||

_____ | _____ | _____ | _____ | _____ | _____

Score = 127 bits (64), Expect = 8e-27
Identities = 205/252 (81%)
Strand = Plus / Plus

|||||

Sbjct: 20611156 atgcgacacatagaatatcatttttggttgatgcaattcttatatatccatttttagtgagt
20611215

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920

|||| ||||||| | || ||||||||||||||||||| | ||||| ||| ||
Sbjct: 20611216 atacaagaggagataggtgacctttagaatttcttttcttctctgggtcagggctgatc
20611275

Query: 921 cttggcttgatgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980

||||| |||| ||||||||||| | ||||||| ||||| ||||| ||||| |||
Sbjct: 20611276 cttggctcgtgatatggtgaccaatacacttcattatgcaattcccaaataatcctctg
20611335

Query: 981 tacatgttatagatacttttccagcgtatacacaagatgtatgtagttcctataactcatgg
1040

|| ||||| ||| ||||| || | ||||||| ||||||| ||||| |||||||||||
Sbjct: 20611336 tatatgttgagacactttccaacatatacacgtgatgtatgcagttgctataactcatgg
20611395

Query: 1041 tgagcatgctta 1052
|||||||||||

Sbjct: 20611396 tgagcatgctta 20611407

Score = 111 bits (56), Expect = 5e-22
Identities = 129/152 (84%), Gaps = 1/152 (0%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatattttaattacaaaatagatatgaaattacaaacaata
698

||||||||| ||||||| ||||||||||| || ||||||| | | ||||||| ||||| |
Sbjct: 24393255 acaagttgaattgaactgaaatattttaaaataaaaaatattt-taaaattaccaacaaca
24393313

Query: 699 gaacaaaatattttaaatttgaaataatacaacaaaaatttttaaatacaaaacaatatggc
758

||||| ||||||||||||||||||| ||||||||||||||| ||| ||||||||||| ||||||| |
Sbjct: 24393314 taacaagatatatttaatttgaaacaatacaacaaaaatttttaaatacaaaagaatatgac
24393373

Query: 759 ataaaaattaatgttggttgacctgagcctacac 790
||||| | || ||||||| | |||||||||||

Sbjct: 24393374 ataaattcaacattgttgacttgagcctacac 24393405

Score = 111 bits (56), Expect = 5e-22
Identities = 133/158 (84%), Gaps = 8/158 (5%)
Strand = Plus / Plus

Query: 426 attttttttgttattaattgtctatatttgtgttctgtttaaattgaaaacaatattatt
485
||||||| ||||||||||||| ||||||| || | ||||||||| | | || |||||||||
Sbjct: 31947172 attttttgtgttattaattgtatatatttatgatttgtttaaactaataataatattatt
31947231

Query: 486 tttcatatgttggttaattcttaatttcttatgcatattttatgttttatcatttttt-aa
544
|| || ||||||||| || || | ||||||||||||||||||||||||| || ||
Sbjct: 31947232 ttgcacatgttggttatttttt-----tttgcataattttatgttttatcatttattgaa
31947284

Query: 545 gagttgaaatcctttgtatttttattttatttgattat 582
||||||||||| ||||||||||| |||||||||||||
Sbjct: 31947285 gagttgaaatcatttgtattttcatatttatttgattat 31947322

Score = 111 bits (56), Expect = 5e-22
Identities = 149/180 (82%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcattttgggtttacctgattcttggatatccattttggtgtgtatac
864
||||||| ||||| ||||||||| | || ||||||| ||||||||||||| |||||||||
Sbjct: 32829318 gacacatgaaacattattttgggttgatctaattcttgaatatccattttgatgtgtatac
32829377

Query: 865 gagaggagacatgacaacctttagaatttcttttcatattttgggttggggcaaattcttg
924
||||| ||||| || ||||||| ||||||||||||| ||||||| || ||||| ||
Sbjct: 32829378 gagagaagacaaaacgacctttaaatttcttttcatctttgggttaggggtcaaataatttt
32829437

Query: 925 gcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtaca
984
||||||| | | || ||||| | ||||| ||||| |||| | ||||| |||||||||
Sbjct: 32829438 acttgtgatacgatggccaatacgcttcggtgcataattctccaaattatcatttgtaca
32829497

Score = 85.7 bits (43), Expect = 3e-14
Identities = 133/163 (81%)

Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
860

|||||
Sbjct: 8536806 atgcgacacatggaacatcgcttcgattgatctggttcttggatatgttttgggtgtgg
8536747

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920

|||
Sbjct: 8536746 atatgagaggagacaaaattacctttagaatttattttcttgtctaggttggggcagatc
8536687

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatt 963

|||||
Sbjct: 8536686 attggcttgtgacatgatggtcaatatgcttcggttgcgcaatt 8536644

Score = 85.7 bits (43), Expect = 3e-14
Identities = 124/150 (82%), Gaps = 2/150 (1%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgtatac
864

|||||
Sbjct: 20360662 gacacatggaacatctttttgattgacctgattctctcatatccatttcggtgtgtatac
20360721

Query: 865 gagaggagacatgacaacctttaga--atttcttttcatttttgggttggggcaaattct
922

|||||
Sbjct: 20360722 gagaggatattggacgacctttagattattttttagaatttttgggtcagggcaaattcg
20360781

Query: 923 tggcttgtgacatggtgaccaacatgcttc 952

|||
Sbjct: 20360782 tggttcatgacattgtggccaacatgcttc 20360811

Score = 81.8 bits (41), Expect = 5e-13
Identities = 134/165 (81%)
Strand = Plus / Minus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224

|||||
Sbjct: 17646712 gttaattgtctcatgcactaagaatcgtatatcacatcaaccggactcaagaacatggtg
17646653

Query: 1225 agagtttgcccttttctgtatgtctttcatagccttggttaataacttttgataaaacttc
1284

|||||
Sbjct: 17646652 agagttgggtctttctttgtgcgctcttccatagcttggttaataatttctatataaaacttg
17646593

Query: 1285 accaaatgtaatcactcttgcgacttctctccccctttggttgaa 1329
|||||
Sbjct: 17646592 gtcaaataatgattcttgcaacttctctccctctttagttgaa 17646548

Score = 79.8 bits (40), Expect = 2e-12
Identities = 73/84 (86%)
Strand = Plus / Minus

Query: 836 ttcttggatatccattttggtgtgtatacgagaggagacatgacaacctttagaatttct
895

|||||
Sbjct: 16794095 ttcttggatatccattttcggtgtgcatacgagaggagatatgacgacccttagtacttct
16794036

Query: 896 tttcatttttgggttgggggcaa 919
|||||
Sbjct: 16794035 tttcttttctaggttgggggaaa 16794012

Score = 79.8 bits (40), Expect = 2e-12
Identities = 67/76 (88%)
Strand = Plus / Minus

Query: 703 aaaatatttaaatttgaaataatacaacaaaaattttaaaatacaacaatatggcataa
762

|||||
Sbjct: 16794249 aaaatatttaaatttgaattaatacaacaaaaatttaaaaaatacaacaatatgacatac
16794190

Query: 763 aattaatgttggttggc 778
|||
Sbjct: 16794189 attgaacgttggttggc 16794174

Score = 79.8 bits (40), Expect = 2e-12
Identities = 99/118 (83%), Gaps = 3/118 (2%)
Strand = Plus / Plus

Query: 1006 tatacacaagatgtatgtagttcctataactcatggtgagcatgcttata---aacaacaa
1062
||||| | |||||||| |||||| | |||||||| |||||| | ||||||
Sbjct: 32829529 tatacataggatgtatgtaattcctattttcatggtgagcatgcttacaagcaacaacac
32829588

Query: 1063 catgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
1120
|||| | ||| |||||| |||| | |||||||| | ||| ||||||||
Sbjct: 32829589 catgacaacaaggcatgtgcactttttagaatttgtcacatttacaccacctttcatc
32829646

Score = 77.8 bits (39), Expect = 7e-12
Identities = 101/121 (83%), Gaps = 3/121 (2%)
Strand = Plus / Minus

Query: 1007 atacacaagatgtatgtagttcctataactcatggtgagcatgcttataaaca---acaac
1063
|||||||||||||||||| | |||||| |||| | |||| | ||||
Sbjct: 16793924 atacacaagatgtatgtagttttgtactcatgatgagcgtgcttacaagcagcaacaac
16793865

Query: 1064 atgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctag
1123
|| |||||| | |||| | |||||| |||||| ||| |||||| |||||||||
Sbjct: 16793864 ataagaacaaggatgtgttaatttttggaaatttgccacattcacaccacctttcatctag
16793805

Query: 1124 c 1124
|
Sbjct: 16793804 c 16793804

Score = 75.8 bits (38), Expect = 3e-11
Identities = 101/121 (83%), Gaps = 2/121 (1%)
Strand = Plus / Plus

Query: 1540 acaaacacccagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataa
1599
|||||| | || |||||| | |||||||| || | |||||| | |||||
Sbjct: 26159285 acaaacacttagtaatacaacaacaacaacacacatgaagattacaaatcgtgaaataa
26159344

Query: 1600 tacaattacaatcaaataatttggggagggggtcttcaaaacttgattcaagggttcattg
1659

|| ||| ||||||| |||||| | | |||| |||||||||||| |||| | | ||||
Sbjct: 26159345 taaaataacaatcaattaatttagg--gggggtcttcaaaacttgactcaagctttattg
26159402

Query: 1660 t 1660
|
Sbjct: 26159403 t 26159403

Score = 73.8 bits (37), Expect = 1e-10
Identities = 79/93 (84%)
Strand = Plus / Plus

Query: 684 aaattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaaaattttaaaa
743

||||| ||||||| |||||| | |||||| | |||||| | |||| | | ||||
Sbjct: 15366694 aaattaccaacaatagaataaaaatatataaatttgaaagtatacaataaaaaattttaaa
15366753

Query: 744 tacaacaatatggcataaaaattaatgttggtg 776
||||| | |||| || | || |||| |||||||
Sbjct: 15366754 tacaagattatgacatgaagttaacgttggtg 15366786

Score = 73.8 bits (37), Expect = 1e-10
Identities = 49/53 (92%)
Strand = Plus / Plus

Query: 544 agagttgaaatcctttgtatTTTTTattttatttgattattataatacataatt 596
||||||| ||||||| |||||| | |||| | ||||||| |||| | ||||
Sbjct: 18406209 agagttgaaatcctttgtatTTTtcatttcatttgattattaaaatacgtaatt
18406261

Score = 71.9 bits (36), Expect = 4e-10
Identities = 66/76 (86%)
Strand = Plus / Minus

Query: 1259 ttgtttaatacttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctcccc
1318
||||| |||| | ||||||| | ||||||| |||| | ||||||| |||| |


```
Query: 1004      cgtatacacaaagatgtatgtagttcctatactcatggtgagcatgct 1050
                |||
Sbjct: 24395115 cgtatacacaaagatgtatgtaqttcttqtactcatqatgaqcatgct 24395161
```

Score = 65.9 bits (33), Expect = 3e-08
Identities = 75/89 (84%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
|||||
Sbjct: 24393438 atgcgacacatgagacattgctttggttgaccggttctcagatatccattttggtgtgg
24393497

Query: 861 atacgagaggagacatgacaacctttaga 889
|||||
Sbjct: 24393498 atacgagaggagataggacgacctttaga 24393526

Score = 65.9 bits (33), Expect = 3e-08
Identities = 42/45 (93%)
Strand = Plus / Plus

Query: 1371 attgccagattttgtgttttcttgagtaccaaattaattaactca 1415
|||||
Sbjct: 32829814 attggcagattttgtgttttcttgagtaccgaattaattgactca 32829858

Score = 63.9 bits (32), Expect = 1e-07
Identities = 41/44 (93%)
Strand = Plus / Plus

Query: 516 tgcataatatttatgttttatcattttttaagagttgaaatccttt 559
|||||
Sbjct: 3334971 tgcataatatttatgttttatcatttttaaaaagttgaaatccttt 3335014

Score = 63.9 bits (32), Expect = 1e-07
Identities = 59/68 (86%)
Strand = Plus / Minus

Query: 1422 ccatcgccagccaccatcccatgcgagagtcacttttcttggtgaatcttcctaagcta
1481
|||||
Sbjct: 16793494 ccatcgctcggccatcatcccatgcgagagtcatttttcttgcggaatctcgctgagcca
16793435

Query: 1482 attaattg 1489
 |||||||
Sbjct: 16793434 attaattg 16793427

Score = 60.0 bits (30), Expect = 2e-06
Identities = 42/46 (91%)
Strand = Plus / Minus

Query: 551 aaatcctttgtatTTTTtattttatttgattattataatacataatt 596
 ||||||| ||||| | ||||||||||||||| |||||||||
Sbjct: 15061567 aaatcctttctatTTTTcaatttatttgattattaaaatacataatt 15061522

Score = 60.0 bits (30), Expect = 2e-06
Identities = 36/38 (94%)
Strand = Plus / Plus

Query: 552 aatcctttgtatTTTTtattttatttgattattataata 589
 ||||||||||||| ||||||||||||||| |||
Sbjct: 20598262 aatcctttgtatTTTtcattttatttgattattaaaata 20598299

Score = 60.0 bits (30), Expect = 2e-06
Identities = 36/38 (94%)
Strand = Plus / Plus

Query: 552 aatcctttgtatTTTTtattttatttgattattataata 589
 ||||||||||||| ||||||||||||||| |||
Sbjct: 20610902 aatcctttgtatTTTtcattttatttgattattaaaata 20610939

Score = 58.0 bits (29), Expect = 7e-06
Identities = 32/33 (96%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattattataatacata 593
 ||||||||||||| |||||||
Sbjct: 15366604 tatttttattttatttgattattaaaatacata 15366636

Score = 58.0 bits (29), Expect = 7e-06
 Identities = 32/33 (96%)
 Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtccacttttcttg 1463
 ||||||||||||||||||||||||| ||||||||
 Sbjct: 31948204 gccaccatcccatgcgagagtccatttttcttg 31948236

Score = 56.0 bits (28), Expect = 3e-05
 Identities = 75/91 (82%), Gaps = 6/91 (6%)
 Strand = Plus / Minus

Query: 1006 tatacacaagatgtatgtatgttcttataactcatgggtgagcatgctt-----ataaaca
 1059
 |||||||||||| || ||||||| ||||||||||||||||||||| || | |||
 Sbjct: 15060621 tatacacaagattcatatagttcttataactcatgggtgagcatgtttttcacaagcagcaa
 15060562

Query: 1060 caacatgagaacaaaacatgtgcatttttttg 1090
 |||||||||||||| ||||||||| |||||
 Sbjct: 15060561 caacatgagaacaagacatgtgcacttttttg 15060531

Score = 56.0 bits (28), Expect = 3e-05
 Identities = 49/56 (87%)
 Strand = Plus / Plus

Query: 1416 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttggtggaatct 1471
 |||||||||||| | | |||||||||||||| ||| ||| |||||||||||||||||
 Sbjct: 15367407 gtgtcccatcggtcggtcaccatcccatgcaagaaaccatttttcttggtggaatct
 15367462

Score = 56.0 bits (28), Expect = 3e-05
 Identities = 40/44 (90%)
 Strand = Plus / Plus

Query: 260 cgattttcttaattacatttttttatacatttagaaattgggtttc 303
 ||||||||| ||| ||||||||||| |||||||||||||
 Sbjct: 31947082 cgattttcttatttatatttttttatatgttttagaaattgggtttc 31947125

Score = 56.0 bits (28), Expect = 3e-05

Identities = 92/112 (82%), Gaps = 1/112 (0%)
 Strand = Plus / Plus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
 1224
 |||||
 Sbjct: 32829687 gttaattgtctcatggactaagaatcgtgtgtcacatcgatcaaactcaagaagaatatg
 32829746

Query: 1225 agagtttgcctttttctgtatgtctttcatagccttgtttaatacttttgta 1276
 | | | |
 Sbjct: 32829747 atag-ttatctttctctgtgtgtcttctatagccttgtttagtacttatgta 32829797

Score = 54.0 bits (27), Expect = 1e-04
 Identities = 89/106 (83%), Gaps = 4/106 (3%)
 Strand = Plus / Plus

Query: 1314 tccccctttggttgaacaatgcattacacc-tagtataggttgattttaccaacacac--
 1370
 | | | |
 Sbjct: 15367286 tccctcttttggttgaacaatgcattacaccatag-atatgttgattttactagcacactt
 15367344

Query: 1371 attgccagattttgtgttttcttgagtaccaaattaattaactcag 1416
 | | | |
 Sbjct: 15367345 attgataaatttcttgaattcttgagtaccaaattaatcaactcag 15367390

Score = 54.0 bits (27), Expect = 1e-04
 Identities = 36/39 (92%)
 Strand = Plus / Plus

Query: 537 ttttttaagagttgaaatcctttgtatttttattttatt 575
 | | | |
 Sbjct: 17804892 tttttcaagagtgaaaatcctttgtatttttattttatt 17804930

Score = 52.0 bits (26), Expect = 4e-04
 Identities = 59/70 (84%)
 Strand = Plus / Plus

Query: 709 tttaaatttgaaataataacaacaaaaattttaaaatacaacaatatggcataaaattaa
 768
 | | | |

Sbjct: 1182820 ttttaaatttaaattaataacaacaacattttacaaatacaaataatatgatatatatttaa
1182879

Query: 769 tggttggtggc 778
|||||||
Sbjct: 1182880 tggttggtggc 1182889

Score = 52.0 bits (26), Expect = 4e-04
Identities = 29/30 (96%)
Strand = Plus / Plus

Query: 1432 ccaccatcccatgcgagagtccacttttct 1461
|||||||
Sbjct: 18407129 ccaccatcccatgtgagagtccacttttct 18407158

Score = 52.0 bits (26), Expect = 4e-04
Identities = 44/50 (88%)
Strand = Plus / Plus

Query: 1312 tctccccctttggttgaacaatgcattacacctagtatataggttgatttta 1361
|||||
Sbjct: 20598976 tctccctctttggatgaacaatgcattacaacttatatatgttgatttta 20599025

Score = 52.0 bits (26), Expect = 4e-04
Identities = 35/38 (92%)
Strand = Plus / Plus

Query: 556 ctttgtatTTTTTTTTTTTtatttgattattataataacata 593
|||||
Sbjct: 24393189 ctttttattttcattttatttgattattaaaataacata 24393226

Score = 52.0 bits (26), Expect = 4e-04
Identities = 35/38 (92%)
Strand = Plus / Plus

Query: 1307 acttctctccccctttggttgaacaatgcattacacct 1344
|||||||
Sbjct: 24396817 acttctctcccttttttgggttgaacaatgcattacacct 24396854

Score = 50.1 bits (25), Expect = 0.002
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 744 taaaaacaatatggcataaaattaatgttgttggtgagc 784
 ||||| |||||
Sbjct: 17647186 taaaaacaatacaataaaattaatgttgttggtgagc 17647146

Score = 50.1 bits (25), Expect = 0.002
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 1207 gaactcaagaacaatgtgagagttt 1231
 |||||
Sbjct: 20598878 gaactcaagaacaatgtgagagttt 20598902

Score = 48.1 bits (24), Expect = 0.006
Identities = 40/44 (90%), Gaps = 1/44 (2%)
Strand = Plus / Plus

Query: 522 ttttatgttttatcatttttt-aagagttgaaatcctttgtatt 564
 |||| | ||||| |||||
Sbjct: 18405859 ttttttgttttatcctttttgaagagttgaaatcctttgtatt 18405902

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 429 ttttttgttattaattgtctata 451
 |||||
Sbjct: 1210950 ttttttgttattaattgtctata 1210928

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 ||||| |||||

Sbjct: 16794266 acaagttaaattgaactaaaatattttaatt 16794236

Score = 46.1 bits (23), Expect = 0.025
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 609 aattgaaattaaaaaatatatatttaa 635
|||||
Sbjct: 16953697 aattgaaattaaaaaatatataattaa 16953723

Score = 46.1 bits (23), Expect = 0.025
Identities = 90/112 (80%), Gaps = 4/112 (3%)
Strand = Plus / Plus

Query: 389 ttttttttggtttggttttaaattgtttgatatttttttggttattaattgtct
448
|||||
Sbjct: 18405746 ttttttcttggttttttttaaattggt---tttgcattttttctttcttaattattt
18405801

Query: 449 atatttggtgttctgtttaaattgaaaacaatattttttcatatggttgta 500
|||||
Sbjct: 18405802 atatttatgtgtgtttaaacggaaaataatatttttgatatgtagtta 18405853

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 178 ataataaaaaaaaaattaattatt 200
|||||
Sbjct: 36136638 ataataaaaaaaaaattaattatt 36136660

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 7768981 aaattaaaaaatatatatttaa 7769002

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 24254713 aaattaaaaaatatatatttaa 24254692

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgttttaa 410
|||||
Sbjct: 26683968 tttttttttgttttgttttaa 26683989

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 383 attgctttttttttgttttgtttta 408
|||||
Sbjct: 27959324 attgctttttttttgttttatttta 27959299

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 608 taattgaaattaaaaaatatatatt 632
|||||
Sbjct: 1896441 taattgaaagtaaaaaatatatatt 1896465

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 421 tttttattttttttgttattaattg 445

```
          ||||| |||||||||||||||||
Sbjct: 6193618 tttttttttttttgttattaattg 6193594
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 1113      ctttcatctagcttgaccatgaaat 1137
              ||||||||||||||||| |||||
Sbjct: 24396626 ctttcatctagcttgaccgtgaaat 24396650
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 388      ttttttttttgttttgtttta 408
              |||||||||||||||||
Sbjct: 28821037 ttttttttttgttttgtttta 28821017
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 176      aaataataaaaaaaaaattaattatt 200
              ||||||||| |||||||||||||||
Sbjct: 32859656 aaataataataaaaaattaattatt 32859680
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 176      aaataataaaaaaaaaattaattatt 200
              ||||||||| |||||||||||||||
Sbjct: 32871070 aaataataataaaaaattaattatt 32871094
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 387 cttttttttttgttttgtttt 407
|||||
Sbjct: 33526242 cttttttttttgttttgtttt 33526222

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 384 ttgctttttttttgttttgtttt 407
|||| |
Sbjct: 2895388 ttgcctttttttttgttttgtttt 2895411

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatattta 634
|||||
Sbjct: 3501518 aattaaaaaatatatattta 3501499

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 180 aataaaaaaaaaattaattat 199
|||||
Sbjct: 4279213 aataaaaaaaaaattaattat 4279232

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 392 ttttttgttttgttttaaaa 411
|||||
Sbjct: 5262779 ttttttgttttgttttaaaa 5262760

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 419 tttttttttttttttttgta 438
 |||||
Sbjct: 7767052 tttttttttttttttttgta 7767071

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 561 ttttttttttttttttgatt 580
 |||||
Sbjct: 9899005 ttttttttttttttttgatt 9899024

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 620 aaaaatatattttaactga 639
 |||||
Sbjct: 10141614 aaaaatatattttaactga 10141595

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgtttgtttt 407
 |||||
Sbjct: 10585444 ttttttttttgtttgtttt 10585425

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaatatattt 633
 |||||
Sbjct: 11482718 aaattaaaaatatattt 11482699

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatattta 634
 |||||||
Sbjct: 14938438 aattaaaaaatatatattta 14938419

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
 |||||||
Sbjct: 15590572 aaattaaaaaatatatattt 15590553

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 557 tttgtatttttattttattt 576
 |||||||
Sbjct: 15749538 tttgtatttttattttattt 15749557

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 183 aaaaaaaaaattaattattta 202
 |||||||
Sbjct: 17059568 aaaaaaaaaaattaattattta 17059549

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 404 ttttaaaattgtttgtatttttattttt 431

|||||
Sbjct: 17454543 ttttaaaattgtgtttatttttattttt 17454570

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
|||||
Sbjct: 21790106 ttttttttttgttttgtttt 21790087

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 570 tttatttgattattataata 589
|||||
Sbjct: 30413405 tttatttgattattataata 30413386

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 618 taataaatatatatttaact 637
|||||
Sbjct: 38505949 taataaatatatatttaact 38505930

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaaattaatta 198
|||||
Sbjct: 55527 aaattataaaaaaaaaaattaatta 55549

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 559 tgtatTTTTtattttatttgatta 581
 |||||
Sbjct: 4129326 tgtatTTTTtatttgatttgatta 4129348

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatTTTTtattataaaa 1540
 |||||
Sbjct: 4147639 aaatatTTTTtattataaaa 4147657

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 698 agaacaaaatatTTaaatt 716
 |||||
Sbjct: 4233430 agaacaaaatatTTaaatt 4233448

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
 |||||
Sbjct: 4535248 aaattaaaaaatatatatt 4535266

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 394 ttttgttttgTTTTaaaat 412
 |||||
Sbjct: 6186377 ttttgTTTTgTTTTaaaat 6186395

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 187 aaaaattaattatttacccaaaa 209
 |||||
Sbjct: 8048629 aaaaattaattatatacccaaaa 8048651

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 560 gtattttttattttatttga 578
 |||||
Sbjct: 8805217 gtattttttattttatttga 8805199

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tattttttattttatttgattatt 583
 |||||
Sbjct: 8814220 tattttttattttatttgattatt 8814242

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 520 tatttttatgttttatcatttttt 542
 |||||
Sbjct: 9284777 tatttttatgttttatcatttttt 9284755

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 183 aaaaaaaaaattaattattt 201
 |||||
Sbjct: 9510681 aaaaaaaaaattaattattt 9510699

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 121 gaaaaagaaaaaagaaatg 139
|||||||
Sbjct: 10158286 gaaaaagaaaaaagaaatg 10158304

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 424 ttatTTTTTTTgttattaa 442
|||||||
Sbjct: 10247345 ttatTTTTTTTgttattaa 10247363

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 322 atgttcattTTTTTTTTTcaaaac 344
|||| |
Sbjct: 10378635 atgtacattTTTTTTTTTcaaaac 10378613

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatTTTTtattataaaa 1540
|||||||
Sbjct: 10620381 aaatatTTTTtattataaaa 10620399

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 325 ttcattTTTTTTTTTcaaaaccaa 347

```

      |||||
Sbjct: 11137384 ttcattttttttttcaaatacaa 11137362

```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```

Query: 1529      tttattataaaacaaacac 1547
      |||||
Sbjct: 11676677 tttattataaaacaaacac 11676695

```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```

Query: 1522      aaatatattttattataaaa 1540
      |||||
Sbjct: 13834774 aaatatattttattataaaa 13834792

```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```

Query: 614      aaattaaaaaatatatatt 632
      |||||
Sbjct: 14952591 aaattaaaaaatatatatt 14952573

```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```

Query: 419      tattttttattttttttggt 437
      |||||
Sbjct: 14993824 tattttttattttttttggt 14993806

```

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 562 atTTTTatTTtatttgattattataat 588
 | | | | | | | | | | | | | | | |
Sbjct: 15082452 atTTTTatTTtatttgTTaattataat 15082478

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatttaa 635
 | | | | | | | | | | | | | | | |
Sbjct: 15377713 ttaaaaaatatatatttaa 15377731

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 566 ttatTTtatttgattattataat 588
 | | | | | | | | | | | | | | | |
Sbjct: 15988691 ttatTTtatttgatgattataat 15988669

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 TTTTTTTTtgTTTTgTTTT 407
 | | | | | | | | | | | | | | | |
Sbjct: 16316872 TTTTTTTTTgTTTTgTTTT 16316890

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 388 TTTTTTTTtgTTTTgTTTTaaa 410
 | | | | | | | | | | | | | | | |
Sbjct: 16396938 TTTTTTTTTgTTTTcTTTTaaa 16396916

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 561 tattttttattttatttgat 579
 |||||||
Sbjct: 17535089 tattttttattttatttgat 17535107

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 557 tttgtattttttattttatt 575
 |||||||
Sbjct: 20598176 tttgtattttttattttatt 20598194

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 557 tttgtattttttattttatt 575
 |||||||
Sbjct: 20610785 tttgtattttttattttatt 20610803

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||||
Sbjct: 22240870 ttttttttgttttgtttt 22240852

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 385 tgcttttttttttgttttgtttt 407
 |||||||
Sbjct: 26470034 tgcttttttttttgttttttttt 26470012

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 180 aataaaaaaaaaattaatta 198
|||||||
Sbjct: 26694415 aataaaaaaaaaattaatta 26694433

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 180 aataaaaaaaaaattaatta 198
|||||||
Sbjct: 27882199 aataaaaaaaaaattaatta 27882217

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttt 432
|||||||
Sbjct: 30819321 gtttgtatttttatttttt 30819339

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
|||||||
Sbjct: 32362957 tttttttttgttttgtttt 32362939

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632

|||||
Sbjct: 32607052 aaattaaaaaatatatatt 32607034

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tattttttattttatttgattatt 583
|||||
Sbjct: 32683911 tattttttattttattttattatt 32683933

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 266 cttaattacatttttttat 284
|||||
Sbjct: 33215982 cttaattacatttttttat 33216000

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 279 ttttatacatatttagaaatt 297
|||||
Sbjct: 33557057 ttttatacatatttagaaatt 33557039

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1521 caaatattttttattataaa 1539
|||||
Sbjct: 35447825 caaatattttttattataaa 35447843

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 35872414 tttttttttgttttgtttt 35872396

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 417 tgtattttttattttttttg 435
 |||||
Sbjct: 35988907 tgtattttttattttttttg 35988925

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgattttttatttttt 432
 |||||
Sbjct: 36492645 gtttgattttttatttttt 36492663

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 173 tccaaataataaaaaaaaaa 191
 |||||
Sbjct: 36749389 tccaaataataaaaaaaaaa 36749407

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgattttttatttttt 432
 |||||
Sbjct: 36977467 gtttgattttttatttttt 36977449

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 385 tgcttttttttttgttttgtttt 407
||||||| |||||||||
Sbjct: 38900762 tgctttttattttgttttgtttt 38900784

>[gb|CM000840.1](#) Glycine max chromosome 7, whole genome shotgun sequence
Length = 44683157

Score = 377 bits (190), Expect = e-102
Identities = 334/380 (87%), Gaps = 4/380 (1%)
Strand = Plus / Minus

Query: 1510 aacacacatgacaaatatttttattataaaacaaacacccagtgatacaacaatgaacaa
1569
||||||| ||||||||| ||| ||||| ||| |||||||||
Sbjct: 15295270 aacacacatgatgaatatttttattacaaagaaaacacttagtaatacaacaatgaacaa
15295211

Query: 1570 cacacatgacaactacaaatcattaaataatacaattacaatcaaataatttg--ggga
1626
||||||| ||| ||||||||| ||| ||||||||| |||
Sbjct: 15295210 cacacatgatgactataaatcattaaataataaaatagcaatcaaataatttgtagggga
15295151

Query: 1627 ggggggt-cttcaaaacttgattcaagggtcattgtatcatcgagggtattcacccaaaccc
1685
||||| ||||||||| ||||||||| ||| ||| ||||||||| ||| ||
Sbjct: 15295150 ggggggttcttcaaaactcgattcaagggtcattgcttaatcaagggtattcatccaaatcc
15295091

Query: 1686 tccaaattcaaagagcttgcagaaactgggtgggtgtgcatatgtttatgtgggtgtg
1745
||||||||| ||||||||| ||||||||| ||||||| ||| |||||
Sbjct: 15295090 cccaaattcaaagagcttgcagaaattgggtgggtgtgcatatgtttgtgtaggtgtg
15295031

Query: 1746 tctacggtgataacataaaactcaaggcatgtgaagttgaagagtttcccaaataatagaa
1805
||| ||||| ||| ||| || ||||||||| ||| ||||||||| |||||||
Sbjct: 15295030 tctgcggtggtaagatataattcaaggcatgtgaggttggagagtttcccgaataatagaa
15294971

Query: 1806 aacatagtaattatttcctcatcatcttgcagcatacatgccctgtactgaaaacaatca
1865
||||||||| ||||||||| ||| ||| ||| |||||||||

Query: 1728 tatgtttatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaag
1787

Sbjct: 27582134 catgtttatgtggatgtgtctacgggtggaatatataactcaaggcatgtgaggtaggag
27582193

Query: 1788 agtttcccaaatatagaaaacatagtaattatttcctcatcatc 1831
|||| ||| || ||||| ||||| |||| | ||||| |||||
Sbjct: 27582194 agttgcccgaacatagaaaacatagtcattacgttctcatcatc 27582237

Score = 186 bits (94), Expect = 1e-44
Identities = 218/258 (84%), Gaps = 6/258 (2%)
Strand = Plus / Plus

Query: 1156 ctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
1215
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15666256 ctctctcaagttaattgtctcctggactaagaattgtgtgttgcattaatcaaactcaag
15666315

Query: 1216 aacaatgtgagagtttgccttttctgtatgtctttcatagccttgtttaataacttttgt
1275
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15666316 accaatgtgagagtttgccttttcttgtgcgtcttccatagtcttgtttagtacttgtgt
15666375

Query: 1276 ataaacttcaccaaataatcactcttgcgacttctctccccctttgggtgaacaatgc
1335
||||| |||| ||||| ||||| |||| | ||||| |||| | |||| ||||| ||||| |||||
Sbjct: 15666376 ataaacttgaccagatgtaatcattgatgcaagttctcttcctttttgattgaataatgc
15666435

Query: 1336 attacacctagtatagggtgattttacca----acacacattgccagattttgtgttttc
1391
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15666436 attacacct--tatagggtgattttaccagcgcacacttattggcagatttcattgttttc
15666493

Query: 1392 ttgagtaccaaattaatt 1409
|||| |||| ||||| |||||
Sbjct: 15666494 ttgaataccgaattaatt 15666511

Score = 186 bits (94), Expect = 1e-44
Identities = 248/298 (83%), Gaps = 1/298 (0%)
Strand = Plus / Minus

Query: 1581 actacaaatcattaaataataacaattacaatcaaataatttggggaggggggtcttcaaaa
1640

|||||
Sbjct: 38544827 actacaaatcattgaataataaaaataacaatcaaataaattgaag-gagtttcttcaaaa
38544769

Query: 1641 cttgattcaaggttcattgtatcatcgaggtattcacccaaaccctccaaattcaaagag
1700

|| ||||| || ||||| || || ||||| |||||
Sbjct: 38544768 ctcgattcgagattcattgcttcttcaaggtattcatccaaaccctccaaatttaaagag
38544709

Query: 1701 cttgcagaaactgggtgggtggtgtgcatatgtttatgtgggtgtgtctacgggtgataaca
1760

||||| ||| | ||||| ||||| ||||| | | ||||| |||||
Sbjct: 38544708 cttgcaaaaattagtggtggatgtgcacatgtttgtataggtgtgtcaacgggtgataata
38544649

Query: 1761 taaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacatagtaattatt
1820

|| ||||| ||||| ||| ||||| || ||||| ||||| |||||
Sbjct: 38544648 tataactcaaggatgtgagattggagagtttctgaacatagaaaatatagtcattaca
38544589

Query: 1821 tcctcatcatcttgcagcatacatgcctgtactgaaaacaatcaccaacaaatgata
1878

||||| |||| || ||||| ||||| | | ||||| |||||
Sbjct: 38544588 tcctcatcatcatgcaatatgcatgcctgtactaaccaatatcaccaacaaatgata
38544531

Score = 180 bits (91), Expect = 7e-43
Identities = 195/227 (85%), Gaps = 2/227 (0%)
Strand = Plus / Minus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataataacaattacaatca
1613

||||| || ||||| ||||| | ||||| ||||| |||||
Sbjct: 27668983 atacaacaataaaaaacacacatgacgataacaaatcattaaataataaaataacaatca
27668924

Query: 1614 aataatttggggaggggggtcttcaaaacttgattcaaggttcattgtatcatcgaggtat
1673

|||| | |||| || | |||| | ||||| ||||| |||||
Sbjct: 27668923 aataaattgggggtggagggga-aaaactcgattcaaggttcattacttcatcaaggtat
27668865

Query: 1674 tcacccaaaccctccaa-attcaaagagcttgcaaaaactgggtgggtggttgtgcatatgt
1732

|||||
Sbjct: 27668864 tcatccaaaccctccaatattcaaagagcttgcaaaaactgggtgggtggatgtgcacatgt
27668805

Query: 1733 ttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtga 1779

|||||
Sbjct: 27668804 ttgtgtgggtatgtctacgatggtaatatataactcaaggcatgtga 27668758

Score = 172 bits (87), Expect = 2e-40
Identities = 234/281 (83%), Gaps = 4/281 (1%)
Strand = Plus / Minus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaataataacaattacaatca
1613

|||||
Sbjct: 10905893 atacaacaatgaaaaacaaacatgactactacaaatcattagataactaaaataccaatca
10905834

Query: 1614 aataattt--ggggagggggtcttcaaaacttgattcaagggttcattgtatcatcgagg
1670

| |||||
Sbjct: 10905833 agtaatttgggggggaagggttcttcaaaacttgattcaagggttcacttcacatcgagg
10905774

Query: 1671 tattcacccaaaccctccaaattcaaagagcttgcaaaaactgggtgggtggttgtgcatat
1730

|||||
Sbjct: 10905773 tattcatccaaacccttcaaattcaaagag-gggcagaaattgggtgggtggatgtgcacat
10905715

Query: 1731 gtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaagagt
1790

|||||
Sbjct: 10905714 gtttgtgtgggtgtttctgcggtggtaatatataactccaggtaggtgaacttgatatt
10905655

Query: 1791 ttcccaaatatagaaaacatagtaattatttcctcatcatc 1831

|| |
Sbjct: 10905654 tttgcgaacatagaaaacataattattacgtcctcatcatc 10905614

Score = 165 bits (83), Expect = 4e-38
Identities = 149/170 (87%), Gaps = 2/170 (1%)
Strand = Plus / Plus

Query: 611 ttgaaattaaaa--aatatatatttaactgacaagttgacttgaactaaaatattttaa
668

Sbjct: 18685852 ttgaaattaaaacaaaaatatatataattaacaagttaaattgaactaaaatattttaa
18685911

Query: 669 tacaaaatagatatgaaattacaaacaatagaacaaaatatTTTaaatttgaaataataca
728

Sbjct: 18685912 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
18685971 tacaaaatatatataaaattaccagcaattgaacaaaatatTTTAAATTGaaacaataca

```
Query: 729      acaaaaatttttaaaatacaaaacaatatggcataaaattaatgttggtggc 778
               |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Sbjct: 18685972 acaaaatgtttaaattacaaaaaatatgacataaatttaacgttggtggc 18686021
```

Score = 161 bits (81), Expect = 6e-37
Identities = 127/141 (90%), Gaps = 1/141 (0%)
Strand = Plus / Minus

Query: 656 aaaatatatttaattacaaaatagatatgaaattacaaacaatagaacaaaatattttaa
715

Sbjct: 10908031 |||||
10907973

Query: 716 ttgaaataataacaacaaaaattttaaaatacaaacatatggcataaaattaatgttggt
775

Sbjct: 10907972 |ttgaaacaatacaacaaaaatttttaaaaatacaagaatatggcataaatttaacgttggtt
10907913

```
Query: 776          ggcttgagcctacacaatggg 796
                ||| ||||| ||||| |||
Sbjct: 10907912    ggcttgagcctacacagtggg 10907892
```

Score = 155 bits (78), Expect = 4e-35
Identities = 261/321 (81%), Gaps = 7/321 (2%)
Strand = Plus / Minus

Query: 1561 aatgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaataatt
1620

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	5
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```
Query: 1065      tgagaacaaaacatgtgcattttttgaaatttgtcacagtcacac 1109
                |||
Sbjct: 37876075 tgagaacaaatcatgtgcaatttttggaatttgccacagtcacac 37876031
```

Score = 125 bits (63), Expect = 3e-26
Identities = 81/87 (93%)
Strand = Plus / Minus

Query: 692 aacaatagaacaaaatatttaaatttgaaataataacaacaaaaattttaaaatacaaaaca
751
|||||
Sbjct: 37876420 aacaatagaacaaaatatttaaatttgaaacaataacaacaaaaattttaaaatacaaaaga
37876361

Query: 752 atatggcataaaaattaatggttggc 778
| ||| ||||| | |||||
Sbjct: 37876360 acatgacataaattcaatggttggc 37876334

Score = 113 bits (57), Expect = 1e-22
Identities = 338/431 (78%), Gaps = 8/431 (1%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
|||| ||| ||| ||||| ||||| || || |||||
Sbjct: 39010027 atgcaacatatgaaacatcgctttggttgacgtggttcttggatatccatttcggtgtgg
39009968

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
||| |||| |||| ||||| || ||||| ||| | ||||| || |||
Sbjct: 39009967 atatgagaagagatatgacgacccttagaatttctttcttatttgggtcaaggaagatc
39009908

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980
||||| ||||| |||| ||| | |||| ||||| |||| ||| ||||
Sbjct: 39009907 attggctcatgacacggtggtcaataagctttattgcacaatttccaaacaatgctttg
39009848

Query: 981 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgg
1040
|| ||||| ||| | ||||| | ||||| ||||| ||| | |||||
Sbjct: 39009847 tatatgttggagacatttttcaacatatacacaagatgtatgtaattcttgactcatgg
39009788

Query: 1041 tgagcatgcttata-----aacaacaacatgagaacaaaacatgtgcattttttgaaat
1094
| ||||| ||| | ||||| ||||| || || ||||| ||| | |||

|||||
Sbjct: 39009727 tttttacaatcacaccacctttcattcagcctaatacatgaaatctctagcaagttgaa--
39009670

Sbjct: 39009669 cctttctcggggtttattgtctcctagaccaagaatcatgtgtcacatcgatcaaactcaa
39009610

```
Query: 1215      gaacaatgtga 1225
           ||||| |||||
Sbjct: 39009609 gaacagtgtga 39009599
```

Score = 109 bits (55), Expect = 2e-21
Identities = 120/139 (86%), Gaps = 2/139 (1%)
Strand = Plus / Minus

Sbjct: 10908306 acaagttgaattgaactaaaatatttaaattacaaaatattt-taaaattatccccaaca
10908248

Sbjct: 10908247 taacaaaatatTTAAATTGaaacaatacaa-aaaaaattTAAaatacaaagaatatgac
10908189

```
Query: 759          ataaaaattaatgttgttgg 777
                ||||| |||| |||||
Sbjct: 10908188 ataaatttaacattgttgg 10908170
```

Score = 103 bits (52), Expect = 1e-19
Identities = 85/96 (88%)
Strand = Plus / Minus

Score = 97.6 bits (49), Expect = 8e-18

Identities = 156/189 (82%), Gaps = 7/189 (3%)
 Strand = Plus / Minus

Query: 1006 tatacacaagatgtatgtagttcctatactcatgggtgagcatgcttataaac---aaca
 1062
 ||||| ||| ||||| | ||||| ||||| ||| ||| |||||
 Sbjct: 42182479 tatacacaggatgcatgtagttcctgtactcatgggtgagcatgcttacaagcagtaaca
 42182420

Query: 1063 catgagaacaaaacatgtgcattttttgaaatttgtcacagtcac--actacctttcatc
 1120
 ||||| |||| | ||| | ||||| ||||| ||| |||||
 Sbjct: 42182419 catgagaacaagacatgcgcaattcctgaaatttgccacagtcacaaactatctttcatc
 42182360

Query: 1121 tagcttgaccatgaaatttctcactagttgaatctctctctccagttaattgtctcctag
 1180
 ||| ||| ||||| || | ||||| ||||| ||| |||||
 Sbjct: 42182359 cagcctgatcatgaaatctccagcgggtgaa--cctctctcgagtttattgtctcctgg
 42182302

Query: 1181 actaagaat 1189
 |||||
 Sbjct: 42182301 actaagaat 42182293

Score = 91.7 bits (46), Expect = 5e-16
 Identities = 163/200 (81%), Gaps = 4/200 (2%)
 Strand = Plus / Minus

Query: 1582 ctacaaatcattaaataataacaattacaatcaaataatttgg--ggaggggggtcttcaa
 1639
 ||||| ||||| ||||| ||| ||||| ||||| ||| ||| |||||
 Sbjct: 27291216 ctacaaatcattaaataataaaataacaatcaaataaattggaaggggggtttcttcaa
 27291157

Query: 1640 acttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaaga
 1699
 ||| ||||| |||| | | ||||| || | ||||| ||| ||| |
 Sbjct: 27291156 actcaattcaagggttaattgcttgagcgagggtatccatcaaaaccctc--aattgaaaaa
 27291099

Query: 1700 gcttgcagaaaactggtggtggttgtgcataatgtttatgtgggtgtgtctacgggtgataac
 1759
 | | | | ||||| ||||| ||||| ||||| | ||| ||| |||
 Sbjct: 27291098 gattccataaattggtggtggatgtgcacatgtttgtgtgggcgggtctgtggtggtaac
 27291039

```
Query: 1006      tatacacaagatgtatgtagttcctatactcatggtgagcatgcttata--aacaacaa
1062            |||
Sbjct: 38147109 tatacacatgatgtatgtagttttgtactcatgatgagcatacttacaagcaacaacaa
38147168
```

```
Query: 1063      catgagaacaaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatcta
1122
                |||
Sbjct: 38147169 catgagaacaagacatgtgcaatttctggaatttg--acagtcacaccacctttcatcca
38147226
```

```
Query: 1123      gcttgaccatgaaat 1137
          | | | | | | | |
Sbjct: 38147227 acctgacaatgaaat 38147241
```

Score = 91.7 bits (46), Expect = 5e-16
Identities = 79/90 (87%)
Strand = Plus / Minus

```
Query: 699      gaacaaaaatatTTTaaatttgaaataatacaacaaaaaatTTTTaaaatacaaacAaatatggc
758            ||||| ||| | ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 39010151 gaactaaaaattTaaatttgaaacaatacaacaaaaaaaaattTaaaatataaagaatatgac
39010092
```

```
Query: 759      ataaaattaatgttggtggcctgagcctac 788
          ||||| | ||||| ||||| ||||| |||||
Sbjct: 39010091 ataaattcaatgttggtggcctgagcctac 39010062
```

Score = 89.7 bits (45), Expect = 2e-15
Identities = 135/165 (81%)
Strand = Plus / Plus

Query: 1180 gactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttt
1239
||||| ||| ||| ||||| | ||| ||||| ||||| ||||| ||| |||||
Sbjct: 38147282 gactaggaactgtgtgtcgcgtcaatcaaactcaagaacattgtgagtggtcgcctttt
38147341

Query: 1240 ctgtatgtctttcatagccttggtttaataacttttgtataaacttcaccaaagtgaatcac
1299
|| ||||| || ||||| ||| ||||| ||||| ||||| ||||| |||
Sbjct: 38147342 aagtgcgtcttcgatgaccttgcttagtactttcgtataaacttggtcaaagtgaagcat
38147401

Query: 1300 tcttgcgacttctctccccctttggttgaacaatgcattacacct 1344
||||| | ||||| ||||| ||| ||||| ||||| ||||| |||||
Sbjct: 38147402 tcttggtggttctctccctctttcgttgaacaatgcattacacct 38147446

Score = 87.7 bits (44), Expect = 7e-15
Identities = 83/96 (86%)
Strand = Plus / Plus

Query: 839 ttggatatccattttggtgtgtatacgagaggagacatgacaacctttagaattttctttt
898
||||| ||||| ||| ||||| ||||| ||| ||| ||||| ||||| |||||
Sbjct: 15665945 ttggatatccatttcgatgtgtatatgagaggagagaggatgacctttagaattttttt
15666004

Query: 899 catttttgggttggggcaaattcttggttgatgaca 934
| | | ||||| ||||| ||||| ||||| |||||
Sbjct: 15666005 cttctctgggttagggcaaattcttggttgatgaca 15666040

Score = 83.8 bits (42), Expect = 1e-13
Identities = 63/70 (90%)
Strand = Plus / Plus

Query: 1420 ccccatcgccagccaccatcccatgcgagagtcacttttcttggtgaatcttcctaagc
1479
||||| | ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15666539 ccccatcgtcggcctccatcccatgcgagagtcgaattttctcggtgaatcttcctaagc
15666598

Query: 1480 taattaattg 1489
|||||
Sbjct: 15666599 caattaattg 15666608

Score = 81.8 bits (41), Expect = 5e-13
Identities = 131/161 (81%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
|||||
Sbjct: 37876289 atgcgacacatgaaacatcactttggttgacacgattctgagatattaattttggagtgg
37876230

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
|| |||||
Sbjct: 37876229 atgcgagaagagacaaaaccacccttagaatttcttttttgtttgggtcaaggcaaatt
37876170

Query: 921 cttggcttgatgacatggtgaccaacatgcttcattgcacaa 961
|||||
Sbjct: 37876169 attggctcatgacatggtgaccaatacgcttcgttacacaa 37876129

Score = 79.8 bits (40), Expect = 2e-12
Identities = 70/80 (87%)
Strand = Plus / Plus

Query: 1800 atagaaaacatagtaattatttctcatcatcttgcagcatacatgccttgactgaaaa
1859
|||||
Sbjct: 15666708 atagaaaacatagtaattatgtcctcatcattttgtagtatgccttgtaataaaaa
15666767

Query: 1860 caatcaccaacaaatgatac 1879
|||||
Sbjct: 15666768 taatccccaacaaatgatac 15666787

Score = 79.8 bits (40), Expect = 2e-12
Identities = 67/76 (88%)
Strand = Plus / Minus

Query: 703 aaaatattttaattttgaaataatacaacaaaaatttttaaatacaaacaaatattggcataa
762
|||||

Sbjct: 27319098 aaaataattaaatttgaattaatacaacaaaattttacaaatacaaacaatatgacatac
27319039

Query: 763 aattaatggttgttggc 778
| | |||||
Sbjct: 27319038 attcaatggttgttggc 27319023

Score = 67.9 bits (34), Expect = 7e-09
Identities = 49/54 (90%)
Strand = Plus / Plus

Query: 846 tccattttggtgtgtatacgagaggagacatgacaacctttagaatttcttttc 899
|||||
Sbjct: 18686110 tccattttggtgtggatacgagaggagacaagacaattcttagaatttcttttc
18686163

Score = 67.9 bits (34), Expect = 7e-09
Identities = 49/54 (90%)
Strand = Plus / Plus

Query: 703 aaaatatattaaatttgaataatacaacaaaattttaaaatacaaacaatatg 756
|||||
Sbjct: 38146792 aaaatatattaaatttgaattaatacaacaaaattttacaaatacgaacaatatg
38146845

Score = 65.9 bits (33), Expect = 3e-08
Identities = 39/41 (95%)
Strand = Plus / Minus

Query: 1500 ttggccttaaaacacacatgacaaatatttttattataaaa 1540
|||||
Sbjct: 15295329 ttggccttaaaacacacatgaagaatatttttattataaaa 15295289

Score = 65.9 bits (33), Expect = 3e-08
Identities = 36/37 (97%)
Strand = Plus / Plus

Query: 1016 atgtatgtagttcctataactcatggtgagcatgctta 1052
|||||
Sbjct: 15666121 atgtatgtaattcctataactcatggtgagcatgctta 15666157

Score = 60.0 bits (30), Expect = 2e-06
Identities = 51/58 (87%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgt
858
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27318978 atgcgacacacagaacatcactttggttgacctggttctcggatatccatttaggtgt
27318921

Score = 58.0 bits (29), Expect = 7e-06
Identities = 41/45 (91%)
Strand = Plus / Plus

Query: 540 tttaagagttgaaatcctttgtatttttattttatttgattatta 584
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15665642 tttaaaagttgaaattcctttgcattttcattttatttgattatta 15665686

Score = 58.0 bits (29), Expect = 7e-06
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 1308 cttctctccccctttggttgacaatgcattacacct 1344
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27301942 cttctctccctcttttgttgacaatgcattacacct 27301906

Score = 58.0 bits (29), Expect = 7e-06
Identities = 143/180 (79%), Gaps = 2/180 (1%)
Strand = Plus / Minus

Query: 1058 aacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttc
1117
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27302189 aacaacatgagaacaaggcacttgcaaattttggaatttgtcacagccacatcacctttc
27302130

Query: 1118 atctagcttgaccatgaaatttctcactagttgaatctctctctccagttaattgtctcc
1177
||| | ||||| ||||| || | | ||||| ||||| ||| |||||

[illegible]

Score = 50.1 bits (25), Expect = 0.002
Identities = 70/85 (82%)
Strand = Plus / Plus

Query: 1035 tcatggtgagcatgcttataaacaacaacatgagaacaaaacatgtgcattttttgaaat
1094

 ||||| ||||||||| || ||||||||| || | |||
Sbjct: 18686303 tcatggtagcatgcttacaagcaacaacatgagaatatggcatgtgcaatttctagaat
18686362

Query: 1095 ttgtcacagtcacactacctttcat 1119

 ||| ||| ||||| |||||
Sbjct: 18686363 ttggcacattcacactgtctttcat 18686387

Score = 48.1 bits (24), Expect = 0.006
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 167 tttttatccaaataataaaaaaaaaatta 194

 ||| ||||||||| |||||||||
Sbjct: 15677523 ttttcatccaaataataaaaaaaaaatta 15677496

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 404 ttttaaaattgtttgtatttttattt 429

 ||||||| ||||||||| |||||
Sbjct: 9727499 ttttaaaatagtttgtatttttattt 9727524

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 521 attttatgttttatcatttttt 542

 ||||||||| ||||||||| |||||
Sbjct: 41498204 attttatgttttatcatttttt 41498183

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaa 635

 ||||||||| ||||||||| |||||

Sbjct: 43470713 aaattaaaaaatatatatttaa 43470692

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 723 aatacaacaaaaattttaaaa 743
|||||||
Sbjct: 5204195 aatacaacaaaaattttaaaa 5204215

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 1520 acaaataTTTTtattataaaa 1540
|||||||
Sbjct: 5510672 acaaataTTTTtattataaaa 5510692

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 391 ttttttTgtttgttttaaaa 411
|||||||
Sbjct: 9056095 ttttttTgtttgttttaaaa 9056115

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 419 tatttttattttttttgttat 439
|||||||
Sbjct: 10253047 tatttttattttttttgttat 10253027

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaattat 199
 |||||
Sbjct: 14329916 taataaaaaaaaaattaattat 14329896

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1859 acaatcaccaacaaatgatac 1879
 |||||
Sbjct: 27290939 acaatcaccaacaaatgatac 27290919

Score = 42.1 bits (21), Expect = 0.39
Identities = 37/41 (90%), Gaps = 1/41 (2%)
Strand = Plus / Plus

Query: 164 ttttttttatccaaataata-aaaaaaaaattaattatttac 203
 ||||| || ||||| |||||
Sbjct: 27660804 ttttttttatgtaattaatacaaaaaaattaattatttac 27660844

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttt 407
 |||||
Sbjct: 636859 ttttttttttgttttgttt 636840

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 387 ctttttttttgttttgttt 406
 |||||
Sbjct: 1310415 ctttttttttgttttgttt 1310434

Score = 40.1 bits (20), Expect = 1.5

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 616 attaaaaaatatatatttaa 635
|||||||
Sbjct: 6002910 attaaaaaatatatatttaa 6002929

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 719 aaataataacaacaaaaatttttaa 742
|||||||
Sbjct: 6749190 aaataataacaacaaaaatttttaa 6749167

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 703 aaaatatttaaatttgaaat 722
|||||||
Sbjct: 6994565 aaaatatttaaatttgaaat 6994584

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 390 ttttttttgttttgttttaa 409
|||||||
Sbjct: 10607670 ttttttttgttttgttttaa 10607651

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1078 tgtgcattttttgaaatttg 1097
|||||||
Sbjct: 12429986 tgtgcattttttgaaatttg 12430005

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 340 aaaaccaagttaagaaatcggttc 363
 ||||| |||||||||||||||||||
Sbjct: 15665184 aaaaacaagttaagaaatcggttc 15665207

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaattattta 202
 ||||| ||||||||||||||| |||||||
Sbjct: 18598222 taataaaaaaaaaattatttattta 18598199

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaattat 199
 ||||| ||||||||||||||| |||||||
Sbjct: 19174949 aaataataaaaaaaaaaataattat 19174972

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 183 aaaaaaaaattaattatttaccca 206
 ||||| |||||||||||||||
Sbjct: 36122475 aaaaaaaaaattgattatttaccca 36122498

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 278 tttttatacatatttagaaatt 297
 ||||| |||||||||||||||

Sbjct: 36139493 tttttatacatcttagaaatt 36139474

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 891 tttcttttcatttttgggtt 910
|||||||
Sbjct: 36447304 tttcttttcatttttgggtt 36447285

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1325 ttgaacaatgcattacacct 1344
|||||||
Sbjct: 39009500 ttgaacaatgcattacacct 39009481

Score = 40.1 bits (20), Expect = 1.5
Identities = 35/40 (87%)
Strand = Plus / Minus

Query: 165 tttttttatccaaataataaaaaaaattaattatttacc 204
||||||| ||| ||| ||| |||||
Sbjct: 40946501 tttttttatccaaataatacaataaaaaataaaatttacc 40946462

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
|||||||
Sbjct: 41515291 ttttttttttgttttgtttt 41515272

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 392 ttttttgttttgttttaaaa 411
 |||||
Sbjct: 41760463 ttttttgttttgttttaaaa 41760444

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 175 caaataataaaaaaaaaatta 194
 |||||
Sbjct: 42598398 caaataataaaaaaaaaatta 42598379

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 322 atgttcattttttttttcaa 341
 |||||
Sbjct: 43860326 atgttcattttttttttcaa 43860307

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgtttta 408
 |||||
Sbjct: 451701 ttttttttgttttgtttta 451719

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
 |||||
Sbjct: 1465245 aaattaaaaaatatatatt 1465263

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 736 ttttaaaatacaaacaata 754
|||||||
Sbjct: 1871069 ttttaaaatacaaacaata 1871051

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 736 ttttaaaatacaaacaata 754
|||||||
Sbjct: 1891767 ttttaaaatacaaacaata 1891749

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 736 ttttaaaatacaaacaata 754
|||||||
Sbjct: 1907611 ttttaaaatacaaacaata 1907593

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 736 ttttaaaatacaaacaata 754
|||||||
Sbjct: 1945858 ttttaaaatacaaacaata 1945876

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
|||||||
Sbjct: 3537942 aaattaaaaaatatatatt 3537924

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 563 tttttattttatttgatta 581
|||||||
Sbjct: 4149630 tttttattttatttgatta 4149648

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattt 633
|||||||
Sbjct: 4529154 aattaaaaaatatatattt 4529172

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 328 attttttttttcaaaacca 346
|||||||
Sbjct: 4661037 attttttttttcaaaacca 4661055

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
|||||||
Sbjct: 6119481 aaattaaaaaatatatatt 6119499

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 420 atttttattttttttgta 438
|||||||

Sbjct: 6467969 atttttatttttttttggtta 6467987

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
|||||
Sbjct: 7081765 aaatatattttattataaaa 7081783

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 263 tttcttaattacatttttttata 285
|||||
Sbjct: 7895514 tttcttaattagatttttttata 7895536

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 404 ttttaaaattgtttgtattttta 426
|||||
Sbjct: 7945655 ttttaaaattgtttttattttta 7945677

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 178 ataataaaaaaaaaattaat 196
|||||
Sbjct: 8142921 ataataaaaaaaaaattaat 8142939

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
 |||||
Sbjct: 9391091 ttttttttttgttttgttt 9391109

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tttttttattttatttgattatt 583
 |||||
Sbjct: 9634089 tttttttattttatttgattatt 9634111

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacathtagaaatt 297
 |||||
Sbjct: 12396209 ttttatacathtagaaatt 12396227

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 609 aattgaaattaaaaaatat 627
 |||||
Sbjct: 12648622 aattgaaattaaaaaatat 12648604

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 578 attattataatacataatt 596
 |||||
Sbjct: 14435964 attattataatacataatt 14435946

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 609 aattgaaattaaaaaatat 627
 |||||||
Sbjct: 15069140 aattgaaattaaaaaatat 15069158

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatatatt 633
 |||||||
Sbjct: 15148280 aattaaaaaatatatatatt 15148262

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 485 ttttcatatgttggttaatt 503
 |||||||
Sbjct: 15290051 ttttcatatgttggttaatt 15290069

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 422 ttttatTTTTTTTggttatt 440
 |||||||
Sbjct: 15624394 ttttatTTTTTTTggttatt 15624376

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 516 tgcataTTTTTgTTTTatcattttt 542
 ||||||| |||||
Sbjct: 15665418 tgcataTTTTTgTTTTatcatgtttt 15665444

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 16493120 ttaaaaaatatatatttaa 16493102

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgatatttttatttttt 432
 |||||
Sbjct: 17567045 gtttgatatttttatttttt 17567027

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 258 accgatttcttaattacatttttttat 284
 ||||| || |||||
Sbjct: 18684833 accgatttctaaactacatttttttat 18684859

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattt 633
 |||||
Sbjct: 18821519 aattaaaaaatatatattt 18821537

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatttttattataaaa 1540
 |||||

Sbjct: 19177022 aaatattttttattataaaa 19177040

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 279 ttttatacathtagaaatt 297
|||||
Sbjct: 19778353 ttttatacathtagaaatt 19778335

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
|||||
Sbjct: 25259835 tttttttttgttttgtttt 25259817

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 419 tattttttattttttttgtt 437
|||||
Sbjct: 25773276 tattttttattttttttgtt 25773294

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 186 aaaaaattaattatttacccaaa 208
|||||
Sbjct: 27586669 aaaaaattaattatttacacaaa 27586647

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 186 aaaaaattaattatttacccaaa 208
|||||||
Sbjct: 27655975 aaaaaattaattatttacacaaa 27655997

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttattttttt 433
|||||||
Sbjct: 28789460 tttgtatttttattttttt 28789442

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 873 acatgacaaccttagaatttct 895
|||||||
Sbjct: 33157473 acatgacaaccttagaatttct 33157495

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 419 tatttttattttttttggt 437
|||||||
Sbjct: 33664038 tatttttattttttttggt 33664020

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 186 aaaaaattaattatttacccaaa 208
|||||||
Sbjct: 34469120 aaaaaattaattatttacacaaa 34469142

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1529 tttattataaaacaaacac 1547
 |||||
Sbjct: 35357636 tttattataaaacaaacac 35357618

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 412 ttgtttgtatTTTTTTTTTT 434
 ||||| |||||
Sbjct: 36342587 ttgtttttatTTTTTTTTTT 36342565

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatTTTTtattataaaa 1540
 |||||
Sbjct: 37015855 aaatatTTTTtattataaaa 37015873

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgTTTT 407
 |||||
Sbjct: 37244234 tttttttttgttttgTTTT 37244252

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaatta 198
 |||||
Sbjct: 37582064 aataaaaaaaaaattaatta 37582046

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 186 aaaaaattaattatttacccaaa 208
 |||||
Sbjct: 37877192 aaaaaattaattatttacacaaa 37877170

Score = 38.2 bits (19), Expect = 6.1
Identities = 49/59 (83%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtg
859
 ||||| ||||| ||||| ||| ||||| | ||| |||||
Sbjct: 38146912 atgcgacacacagaacattgctttggttgacccgattctcgaataaccattttggtgtg
38146970

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
 |||||
Sbjct: 38798805 ttttttttttgttttgttt 38798823

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaa 410
 ||||| |||||
Sbjct: 39302692 tttttgtttgtttgttttaa 39302670

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttttgttttgtttt 407
 |||||
Sbjct: 39302696 ttttttttttgttttgtttt 39302678

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1155 tctctctccagttaattgt 1173
 |||||
Sbjct: 39634767 tctctctccagttaattgt 39634749

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 181 ataaaaaaaaattaattat 199
 |||||
Sbjct: 40423890 ataaaaaaaaattaattat 40423908

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1518 tgacaaatatttttattataaaa 1540
 |||||
Sbjct: 40512940 tgacaaatatttatattataaaa 40512918

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatatttttattataaaa 1540
 |||||
Sbjct: 41094560 aaatatatttttattataaaa 41094578

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Minus

```
Query: 422      ttttattttttttgttatt 440
              |||||
Sbjct: 41339167 ttttattttttttgttatt 41339149
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 414      gtttgatatttttatttttt 432
              |||||
Sbjct: 42569295 gtttgatatttttatttttt 42569277
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 617      ttaaaaaatatatatttaa 635
              |||||
Sbjct: 42875341 ttaaaaaatatatatttaa 42875359
```

>[gb|CM000852.1](#) Glycine max chromosome 19, whole genome shotgun sequence
Length = 50589441

Score = 361 bits (182), Expect = 3e-97
Identities = 518/622 (83%), Gaps = 11/622 (1%)
Strand = Plus / Minus

```
Query: 801      atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
              |||||
Sbjct: 2641822 atgcgacacatggaacatcattttagttgaccttgttcttagatatccattttggtgtgt
2641763
```

```
Query: 861      atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
              |||||
Sbjct: 2641762 atacgagagaagacaagacgacctttagaatttcttttcatttttaggttaagacagatt
2641703
```

```
Query: 921      cttggcttgatgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980
```

|||||
Sbjct: 2641702 cttggccttgtaacacagtgatcaatatgcttcggtgcacaatcccctaacaatcctatg
2641643

Query: 981 tacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgg
1040

|||||
Sbjct: 2641642 tacatggttggaacacactttccagtgatatacgcatgatgtttgtagttcttacactcgtga
2641583

Query: 1041 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
1097

|||||
Sbjct: 2641582 tgagcatgcttacaagcagcaacaacatgagaacaacgcacatgaattttttggaatttg
2641523

Query: 1098 tcacagtcacactacctttcatctagcttgaccatgaaatttctcact-agttgaatctc
1156

|||||
Sbjct: 2641522 tcacagtcacaccacctttcatctaccctgatcctgaaatttc-cagtgagtagaa--cc
2641466

Query: 1157 tctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaaga
1216

|||||
Sbjct: 2641465 tctctcgggttaattgtctgctggactaagaactatgtgtcacatcaatcaaactcaaga
2641406

Query: 1217 acaatgtgagagtttgccttttctgtatgtctttcatagccttgtttaataacttttgta
1276

|||||
Sbjct: 2641405 acaatgtgagagtttatctttctgtgtatcttccatagccatgtttaataacttgtgta
2641346

Query: 1277 taaacttcaccaaataatgtaatcactcttgcgacttctctccccctttgggtgaacaatgca
1336

|||||
Sbjct: 2641345 taaacttggccatacgtaatcattaatgcgacttctctcccactttgggtgaacaatgca
2641286

Query: 1337 ttaca-cctagtatagggttgattttaccacacac--attgccagattttgtgttttctt
1393

|||
Sbjct: 2641285 ttatatccta-tatagggttgattttaccagcgcacttattggcagatttcgtgtttttat
2641227

Query: 1394 gagtaccaaattaattaactca 1415

|||||
Sbjct: 2641226 tagtaccgaattaattgactca 2641205

Score = 291 bits (147), Expect = 3e-76
Identities = 321/378 (84%), Gaps = 2/378 (0%)
Strand = Plus / Minus

Query: 1510 aacacacatgacaaatattttttattataaaacaaacacccagtgatacaacaatgaacaa
1569

|||| ||||||| ||||||||||||| ||||||||||| ||| |||||||||||||||||
Sbjct: 2639050 aacaaacatgacgaatattttttattacaaaacaaacacttagtaatacaacaatgaacaa
2638991

Query: 1570 cacacatgacaactacaaatcattaaataatacaattacaatcaaataatttggggaggg
1629

||||||||| | || ||||||||||| |||||| ||| | ||||||||| | |||||| |||
Sbjct: 2638990 cacacatgatgattataaatcattagataataaaataataatcaaataatttgggggggg
2638931

Query: 1630 ggt--cttcaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctc
1687

||| ||||||||||| ||||||||||||||| ||||||||||||||| |||||||||||
Sbjct: 2638930 ggtttcttcaaaactcaattcaagggttcattaattcatcgagggtattcatccaaaccctc
2638871

Query: 1688 caaattcaaagagcttgcaaaaactgggtgggtggttgatgcatatgtttatgtgggtgtgtc
1747

||||||||||||||||||| ||| ||||||||||||||||| |||||| ||| |||||||
Sbjct: 2638870 caaattcaaagagcttgcaaaaattgggtgggtggttgatgcatatgtttatgtgtaatgtgtc
2638811

Query: 1748 tacggtgataacataaaaactcaaggcatgtgaagttgaagagtttccaaatatagaaaa
1807

|| | || ||| ||| ||||| ||||| ||| ||||| ||||| | | ||||| |||||
Sbjct: 2638810 tatgatggtaagatataactcgaggcatttgaggttgagagttgcacgaatatataaaa
2638751

Query: 1808 catagtaattatttctcatcatcttgcagcatacatgcctgtactgaaaacaatcacc
1867

|||| ||||||| || | ||||||||| ||| || ||||| ||||||| |||||||||||||
Sbjct: 2638750 cataataattatgtctttatcatcttacagtatgcatgtcctgtattgaaaacaatcacc
2638691

Query: 1868 aacaaatgatacgggaca 1885

|||| || ||||| |||||
Sbjct: 2638690 aacagataatacaggaca 2638673

Score = 228 bits (115), Expect = 3e-57
Identities = 212/243 (87%), Gaps = 1/243 (0%)
Strand = Plus / Plus

Query: 551 aaatcctttgtatTTTTATTtTATTgattattataataacataattaacaacaacttaa
610
|||||
Sbjct: 27786116 aaatcctttgtatTTTtTATTtTATTgattgTTgaaatacacataatcaacaacataa
27786175

Query: 611 ttgaaattaaaaaatat-atatttaactgacaagttgacttgaactaaaatatttaaatt
669
|||||
Sbjct: 27786176 ttgaaataaaaaaaaaacataTTTtaaccaacaagttgaattgaacaaaagtatttaaatt
27786235

Query: 670 acaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaataatacaa
729
|
Sbjct: 27786236 aaaaaatagacataaaaattacaaacaatataacaaagtatttaaatttgaacatacaaa
27786295

Query: 730 caaaaatttttaaatacaaaacaatatggcataaaaattaatgTTgTTggcctgagcctaca
789
||||
Sbjct: 27786296 caaatTTTTtaaatacaaatgaatatgatataaacttaatgTTgTTggcctgaacctaca
27786355

Query: 790 caa 792
|||
Sbjct: 27786356 caa 27786358

Score = 218 bits (110), Expect = 3e-54
Identities = 203/233 (87%), Gaps = 2/233 (0%)
Strand = Plus / Minus

Query: 557 tttgtatTTTTATTtTATTgattattataataacataattaacaacaacttaattgaaa
616
|||||
Sbjct: 24229308 tttgtatTTTcaatttATTtTATTgattaataaaaatacataattaatcaacaacttaattgaca
24229249

Query: 617 ttaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaattacaaaat
676
|


```
Query: 1847      cctgtactgaaaacaatcaccaacaaatg 1875
             |||
Sbjct: 27791389 cctgtactgaaaacaatcactaacaaatg 27791417
```

Score = 204 bits (103), Expect = 5e-50
Identities = 261/311 (83%), Gaps = 2/311 (0%)
Strand = Plus / Minus

Query: 1568 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttggggag
1627

Sbjct: 28169060 aacacgcatgatgactacaaaatattaaataataaaaatatcaatcaaataagttgggt-g
28169002

Query: 1628 ggggtcttcaaaacttgattcaagggtcattgtatcatcgaggattcacccaaaccctc
1687

Sbjct: 28169001 gttttcttcaaaacttgattcaagggtcattgcttaatcgaggattcatccaaaccctc
28168942

Query: 1688 caaattcaaagagcttgcagaaactgggtgggtgtgcatatgtttatgtgggtgtgtc
1747

Sbjct: 28168941 taaattcaaagagctggtagaaattagtggtggatgcgtacatgtttgtgtgggtgtgtc
28168882

Query: 1748 tacggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaa
1807

Sbjct: 28168881 tgcagtgataatatataagtcgaggcatgtg-agttggagatttctccaaacataaaaaa
28168823

Query: 1808 catagtaattatttctcatcatcttgcagcatatgcacctgtactgaaaacaatcacc
1867

Sbjct: 28168822 tatagtcattacgtcctcatcatcatgcagcatgcgtacctgtactggccacaatcacc
28168763

Query: 1868 aacaaatgata 1878

Sbjct: 28168762 aacaaatgata 28168752

Score = 198 bits (100), Expect = 3e-48
Identities = 170/192 (88%), Gaps = 1/192 (0%)
Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatat-atatttaactgacaagttgacttgaactaaaatatttaa
666

|||||

Sbjct: 2642038 taattgaaattaaaaaaaaacatatatttaaccaacaagttgaattgaactaaaatatttaa
 2641979

Query: 667 attacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataata
 726

|||||
 Sbjct: 2641978 attacaaaatagacataaaaattaaaaataataggacaaaatatttaaatttgaaacaata
 2641919

Query: 727 caacaaaaatttttaaaatacaacaatatggcataaaattaatgttggtggcctgagcct
 786

|||||
 Sbjct: 2641918 caacaaaaatttttaaaatacaaccagtatgacataaaacttaattatttggcctgaacct
 2641859

Query: 787 acacaatggggg 798
 |||||

Sbjct: 2641858 acacgatggggg 2641847

Score = 186 bits (94), Expect = 1e-44
 Identities = 269/326 (82%), Gaps = 1/326 (0%)
 Strand = Plus / Minus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
 1613

|||||
 Sbjct: 29915987 atacaacaatgaaaaacacacatgatcactacaaatcattaaataataaaaatagtaatca
 29915928

Query: 1614 aataatttgaggagggggtcttcaaaacttgattcaagggttcattgtatcatcgaggtat
 1673

|||||
 Sbjct: 29915927 aataaattggg-aggggttcttcaaaactcaattcaagggttcattgcttcatggaggtat
 29915869

Query: 1674 tcacccaaaccctccaaattcaaagagcttgcagaaactggtggtggttgtgcatatggt
 1733

|||
 Sbjct: 29915868 tcatccaaaccctctaaattcaaagagtttgcagaaattggtggcggtatgtgaaattttt
 29915809

Query: 1734 tatgtgggtgtgtctacggtgataacataaaactcaaggcatgtgaagttgaagagtttc
 1793

|
 Sbjct: 29915808 tgtgtgggtgtgtttgaggtggtaataaaaactctagacatgtaagggttgagaggttga
 29915749

Score = 135 bits (68), Expect = 3e-29
Identities = 200/243 (82%), Gaps = 2/243 (0%)

Sbjct: 27786754 aattgtctcctgaactaagaatcggtgtgcgcataatcgaactcaagaataatgtgaga
27786813

|||| |
Sbjct: 27786814 gtttacctttctctgtgcgtcttccatggccttgtttagtactagcgtataaaacttagca
27786873

1517
Sbjct: 27786874 agatgtaatctttgctacaaattctctccctctttggttgaacaacgcattgcaccttat
27786933

Sbjct: 27786934 atatggttgattttactagtagcacttactggcagatttcatgttttctcgagtaccaaatt
27786993

```
Query: 1406      aat 1408
      |||
Sbjct: 27786994 aat 27786996
```

Score = 133 bits (67), Expect = 1e-28
Identities = 140/164 (85%), Gaps = 9/164 (5%)
Strand = Plus / Minus

Sbjct: 2642189 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
2642130 t g t t c t t a a t t g t c c a t a t t t a t g t t t t g t t t a a a c t a a a a a t a a t a t t a t t a t a c a t a t

Sbjct: 2642129 gttgttaat-----tttttgtatattttatgttttatcattttttaagagttgaa
2642078

```
Query: 553      atcctttgtatttttattttatttgattattataatacataatt   596
               ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2642077 atccttttgtatttttcattttatttgattattaaacataataatt 2642034
```

Score = 133 bits (67), Expect = 1e-28
Identities = 98/107 (91%), Gaps = 1/107 (0%)
Strand = Plus / Plus

```
Query: 608          taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaaa
667                |||
Sbjct: 27382957    taattgaaataaaaaaa-atacatttaaccaacaagttgaattgaactaaaatgttttaa
27383015
```

```
Query: 668      ttacaaaatatagatatgaaattacaacaatagaacaaaatattttaaa 714
               |||||
Sbjct: 27383016 ttacaaaatatagatataaaattacaacaatagaacaaaatattttaaa 27383062
```

Score = 123 bits (62), Expect = 1e-25
Identities = 118/136 (86%), Gaps = 3/136 (2%)
Strand = Plus / Minus

Query: 1005 gtatacacaagatgtatgtagtttctataactcatggtgagcatgcttata--aacaa
1061 |||||||
Sbjct: 28172528 gtatacacgtgatgtatgtagtttctgtactcatggtgagcatgcttacagaacaaa
28172469

```
Query: 1062      acatgagaacaaaacatgtgcatttttgaaatttgtcacagtcacactacctttcatct
1121
                |||
Sbjct: 28172468 acatgagaacaaggcatgtgcaaatttggaaatttgtcatagtcacaccgcctttcatcc
28172409
```

```
Query: 1122      agcttgaccatgaaat 1137
          | | |||||
Sbjct: 28172408 aacatgaccatgaaat 28172393
```

Score = 123 bits (62), Expect = 1e-25
Identities = 209/258 (81%)
Strand = Plus / Plus

Query: 1622 ggggagggggtcttcaaaacttgattcaagggttcattgtatcatcgaggatttcacccaa
1681

|||| |||| |||||||||||||||||||||||||| |||| | ||||||| ||||
Sbjct: 29974947 ggggggggggtcttcaaaacttgattcaagggttcattgcttcatcaaagtattcatccaa
29975006

Query: 1682 accctccaaattcaaagagcttgcagaaaactgggtgggtgtgtgcatatgtttatgtggg
1741

|| ||||| ||| ||||||| | ||| |||||||| |||| | ||||||| |||||||
Sbjct: 29975007 actctccagatttaaagagctgataaaaattgggtgggtgatgtgaacatgtttgtgtggg
29975066

Query: 1742 tgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatat
1801

||||||| |||| ||| ||| |||| |||||| || |||| ||| ||| ||| |||
Sbjct: 29975067 tgtgtctatgggtggtaatatataacttcaggcatatgggcttggagatgtttgcgaacat
29975126

Query: 1802 agaaaacatagtaattatttctcatcatcttgcagcatacatgccctgtactgaaaaca
1861

|||||||||| |||| ||||||| |||||||| ||| |||||||| ||||| |||
Sbjct: 29975127 ggaaaacatagtcattacgtcctcattatcttgaacatgcatgccctctactggccata
29975186

Query: 1862 atcaccaacaaatgatac 1879

||||| |||||||||||||
Sbjct: 29975187 atcactaacaaatgatac 29975204

Score = 119 bits (60), Expect = 2e-24
Identities = 175/211 (82%), Gaps = 3/211 (1%)
Strand = Plus / Minus

Query: 1208 aactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttgt-ttaa
1266

|||||||||| |||||||| |||| | |||||||| |||| ||||||||| |||
Sbjct: 24228647 aactcaagaaaaatgtgagtggtttacatttttctgtgcgtcttccatagccttgtgtttg
24228588

Query: 1267 tacttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctccccctttgggt
1326

||||| ||||||||| || || ||||||| | ||| || || ||||||| |||||||
Sbjct: 24228587 tacttgtgtataaaactttgtcaggtgtaatcgttgttgagaattttctccctctttgggt
24228528

Query: 1327 gaacaatgcattacacctagtatagggttgattttaccaacacacat--tgccagattttg
1384

||||||| |||| |||| | ||||| ||||||||| | ||||| | |||||||

Sbjct: 24228527 gaacaatgtattataccttgaataggatgattttacctgcgcacatattagcagattttg
24228468

Query: 1385 tgttttcttgagtaccaaattaattaactca 1415
|||||
Sbjct: 24228467 tgttttcttgagtaccaaattaattgactca 24228437

Score = 115 bits (58), Expect = 3e-23
Identities = 194/236 (82%), Gaps = 5/236 (2%)
Strand = Plus / Plus

Query: 1005 gtatacacaagatgtatgtagttcctataactcatggtgagcatgcttataaa---caaca
1061
|||||
Sbjct: 36248183 gtatacacaagatatatgtaattcctgtactcatggtgagtatgcttacaagtagcaaca
36248242

Query: 1062 acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
1121
|||
Sbjct: 36248243 tcataagaacaagacatgtgcaattttcggaatttgtcacagtcacaccaccttttatcg
36248302

Query: 1122 agcttgaccatgaaattttctcactagttgaatctctctctccagttaattgtctcctaga
1181
|||
Sbjct: 36248303 agcatgaccgtgaaattt-tcagcaggttcaac-ctctctcgggtttattgtctcatgga
36248360

Query: 1182 ctaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcttt 1237
|
Sbjct: 36248361 ccaagaaccgtgtatcgcacatcaatcaaactcaagaacaatgtgagtggttgccttt
36248416

Score = 111 bits (56), Expect = 5e-22
Identities = 113/132 (85%)
Strand = Plus / Plus

Query: 1010 cacaagatgtatgtagttcctataactcatggtgagcatgcttataaacaacaacatgaga
1069
|||||
Sbjct: 27786598 cacaagatgtatgtagttcctgtactcatggtgagcatgcttacaagcaacaacatgaaa
27786657

Query: 1070 acaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgac
1129

|||| || ||||| ||||| ||||| |||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27786658 acaaggcaagtgcacttttttagaatttaccacaatcacaccacctttcatccagcttgat
27786717

Query: 1130 catgaaatttct 1141

|||||||
Sbjct: 27786718 tgtgaaatttct 27786729

Score = 101 bits (51), Expect = 5e-19
Identities = 75/83 (90%)
Strand = Plus / Plus

Query: 1057 caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
1116

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27383399 caacaacatgagaacaaggcatgtgcactttttggaatttgccacagtcacacaatcttt
27383458

Query: 1117 catctagcttgaccatgaaattt 1139

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27383459 catctagcctgaccatgaaattt 27383481

Score = 101 bits (51), Expect = 5e-19
Identities = 160/195 (82%), Gaps = 1/195 (0%)
Strand = Plus / Minus

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
1228

||||||| || ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29919488 attgtctcttggaccaagaatcgtatgtcgcattcaattgaactcaagaacaatgtaagt
29919429

Query: 1229 tttgcctttttctgtatgtctttcatagccttggttaataacttttgtataaacttcacca
1288

|||| |||| ||| | ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29919428 tttgtctttctctatgcgtctttgatggccttggttagtacttgcgataaacttggtca
29919369

Query: 1289 aatgtaatcactcttgcgacttctctcccccttgggttgaaac-aatgcattacacctagt
1347

|||||| || | |||| | ||||| || ||||| ||||| ||||| ||||| |||||
Sbjct: 29919368 gatgtaaacattgttgcaatttctctctcttctttgttgaaacaaatgctttacaccttat
29919309

```
Query: 1023      tagttcctatactcatggtgagcatgctta 1052
               |||||
Sbjct: 24228824 tagttcctatattcttggtgaacatgctta 24228795
```

Score = 97.6 bits (49), Expect = 8e-18
 Identities = 258/323 (79%), Gaps = 6/323 (1%)
 Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttggtgtgt
 860

Sbjct: 29919854 atgcgacacatgaaacatcgctttggttgatttggttctagg-tatccatttcggtgtgg
 29919796

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
 920

Sbjct: 29919795 atacgagaggagacaaaccgacccttagaatttattttcttttctaggttgggataa-tt
 29919737

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
 980

Sbjct: 29919736 attggtttgtgacatgatgactaacacacttcggtgcataattctccaaacaatcctttg
 29919677

Query: 981 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
 1040

Sbjct: 29919676 tatacattggagacactttccaacgtatacacatgatatatgtagtttttgtactcatgg
 29919617

Query: 1041 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
 1097

Sbjct: 29919616 tgaacatgcttataagcagcaacaatatgagagcaagacaggtgca-atTTTggaatttg
 29919558

Query: 1098 tcacagtcacactacctttcatc 1120

Sbjct: 29919557 ccacagtcgcaccactttttcatc 29919535

Score = 95.6 bits (48), Expect = 3e-17
 Identities = 96/112 (85%)
 Strand = Plus / Minus

Query: 1637 aaaacttgattcaaggttcattgtatcatcgaggtattcacccaaaccctccaaattcaa
1696

||||| ||||||||||||||| |||||||||||| | || |||||||||||||||

Sbjct: 2720448 aaaactcgattcaaggttcattgcttcatcgaggtatttataaaaccctccaaattcaa
2720389

Query: 1697 agagcttgcagaaactgggtgggtggtgcatatgtttatgtgggtgtgtct 1748

|||| | ||||||| |||||||| | || |||||| | || |||||||||

Sbjct: 2720388 agagttggcagaaattgggtgggtggatgcgcacatgtttgtgtaggtgtgtct 2720337

Score = 93.7 bits (47), Expect = 1e-16
Identities = 77/87 (88%)
Strand = Plus / Plus

Query: 703 aaaatattttaaatttgaaataataacaacaaaattttaaaatacaacaatatggcataa
762

||||||||||||||||| |||||||||||| ||| |||||||||| | |||| | ||||

Sbjct: 29970901 aaaatattttaaatttgaaacaataacaacaaaattttaaaatacaagaatatgacataa
29970960

Query: 763 aattaatgttggtggcctgagcctaca 789

| | | ||||||| |||||||||

Sbjct: 29970961 attcaacattggtggcctgagcctaca 29970987

Score = 89.7 bits (45), Expect = 2e-15
Identities = 51/53 (96%)
Strand = Plus / Plus

Query: 544 agagttgaaatcctttgtatttttattttatttgattattataatacataatt 596

||||||||||||||||| ||||||||||||||| |||||||||||

Sbjct: 27382909 agagttgaaatcctttgtattttcattttatttgattattaaaatacataatt
27382961

Score = 87.7 bits (44), Expect = 7e-15
Identities = 65/72 (90%)
Strand = Plus / Plus

Query: 1540 acaaacacccagtgataacaacaatgaacaacacacatgacaactacaaatcattaaataa
1599

|||| ||| |||| | ||||||||||||||| ||||||||||| |||| | |||||||||||

Sbjct: 27789774 acaagcactcagtaataacaacaatgaacaacacacatgacgactataaatcattaaataa
27789833

Score = 85.7 bits (43), Expect = 3e-14
Identities = 106/127 (83%)
Strand = Plus / Plus

Query: 808 acatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgtatacagag
867

Sbjct: 27786396 acatggaacatcattttggctgacctgattcttgaatatattttcagtgtgtatatgag
27786455

Query: 868
927

Sbjct: 27786456 aggagacatgacgatccctagaatttctttccttctttgggtcagggcagatttttgact
27786515

```
Query: 928          tgtgaca 934
      |||||
Sbjct: 27786516    cgtgaca 27786522
```

Score = 83.8 bits (42), Expect = 1e-13
Identities = 93/110 (84%)
Strand = Plus / Minus

Query: 1632 tcttcaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaa
1691

Sbjct: 19660379 tcttcaaaactcgattcaagggttactgcttgagcgaggtattcatccaaaccctcaaaa
19660320

```
Query: 1692      ttcaaagagcttgcagaaactggtggtggttgatgcatatgtttatgtggg 1741
               ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 19660319 ttaaaagagcgagtagaaattggtagtggatgtgcacatgtttgtgtggg 19660270
```

Score = 79.8 bits (40), Expect = 2e-12
Identities = 72/80 (90%), Gaps = 2/80 (2%)
Strand = Plus / Minus

Query: 1500 ttggccttaaaacacacatgacaaatattttttattataaaaacaaacacccagtatacaa
1559

Sbjct: 2639116 |||
2639059 ttggccttaaaacatacatggcgaat-tttttattataaaaacaa-cactcagtaatacaa

```
Query: 1560      caatgaacaacacacatgac 1579
              |||||
Sbjct: 2639058 caatgaacaacaaacatgac 2639039
```

Score = 79.8 bits (40), Expect = 2e-12
Identities = 77/88 (87%), Gaps = 1/88 (1%)
Strand = Plus / Minus

Query: 703 aaaatatttaaatttgaaataataacaacaaaaattttaaaatacaaacaatatggcataa
762
 |||||
Sbjct: 28172846 aaaatatttaaatttgaaacaataacaacaaatctttt-aaatacaaagagtgtgacataa
28172788

Query: 763 aattaatggttggtggcctgagcctacac 790
 | |||||
Sbjct: 28172787 atttaatggttggtggcctgagcctacac 28172760

Score = 77.8 bits (39), Expect = 7e-12
Identities = 75/87 (86%)
Strand = Plus / Minus

Query: 703 aaaatatttaaatttgaaataataacaacaaaaattttaaaatacaaacaatatggcataa
762
 |||||
Sbjct: 19788467 aaaatatttaaatttgaattaataacaacaaaaattttacagatacaatcaatatggcatat
19788408

Query: 763 aattaatggttggtggcctgagcctaca 789
 | | || |||||
Sbjct: 19788407 attcaaagttggtggcctgaacctaca 19788381

Score = 75.8 bits (38), Expect = 3e-11
Identities = 53/58 (91%)
Strand = Plus / Plus

Query: 1432 ccaccatcccatgcgagagtcacttttcttggtggaatcttcctaagctaattaattg
1489
 |||||
Sbjct: 27787037 ccaccatcctatgcgagagtcacttttctagtgggaatctccctgagccaattaattg
27787094

Score = 73.8 bits (37), Expect = 1e-10
Identities = 243/310 (78%), Gaps = 5/310 (1%)

Strand = Plus / Minus

Query: 834 gattccttggatatccatcttgggtgtgtatcacgagaggagacatgacaacctttagaattt
893

||||| | |||||||| | ||| || | |||||| | ||| | ||
Sbjct: 19788314 gattctcgaatatccatctcagtggtgcataatgagtgagacaggacaacccttagtactt
19788255

Query: 894 cttttcatttttgggttggggcaaattcttggcttgtgacatggtgaccaacatgcttca
953

||||| ||| |||||| ||| | || | || ||| |||||| ||| ||| | |||||
Sbjct: 19788254 cttttcttttctgggttaggggagatcattagctcgtgacacggtggccaataggcttcg
19788195

Query: 954 ttgcacaatttcccaagtaatcatttgtacatggttatagatacttttcagcgtatacaca
1013

||||||||| ||| |||| | | | |||||| ||| ||| | || |||||||
Sbjct: 19788194 ttgcacaattcttcaaataatcctctacatatggttagagacacttcccaacgtatacatg
19788135

Query: 1014 agatgtatgtagttcctataactcatggtgagcatgcttataaaca---acaacatgagaa
1070

||||||||||||| || |||||||| | | |||||| | || | |||||||||||
Sbjct: 19788134 ggatgtatgtagtttctgtactcatgattaacatgcttgcaagcagcaacaacatgagaa
19788075

Query: 1071 caaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgacc
1130

||| ||| |||| |||| | |||||| | |||| | ||||||||| | | |||||
Sbjct: 19788074 caaggcatatgcaacttttggaaatttgtcatgatcaca--acctttcatccatcctgacc
19788017

Query: 1131 atgaaatttc 1140

|||||||||
Sbjct: 19788016 atgaaatttc 19788007

Score = 73.8 bits (37), Expect = 1e-10
Identities = 55/61 (90%)
Strand = Plus / Plus

Query: 439 ttaattgtctatatatttgtgttctgtttaaattgaaaacaatattatctttcatatgttgt
498

||||| |||||||| |||| | |||||| | |||| | ||||||||| |||||||||
Sbjct: 27382627 ttaattatctatatatttatgttttgtttaaactgaaaataatattatctttgcataatgttgt
27382686


```
Query: 704      aaatattttaaatTTgaaataataacaacaaaaatttttaaatacaacaatatggcataaa
763      |||||||
Sbjct: 2724271 aaatattttaaatTTgaaacagtacaacaaatttttttaaatagaaggaatatgacataaa
2724212
```

Score = 65.9 bits (33), Expect = 3e-08
Identities = 64/73 (87%), Gaps = 1/73 (1%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaa-aatatatattttaactgacaagttgacttgaactaaaatatttaaatt
669

|||||
Sbjct: 29920107 ttgaaattaaaagaaaacatatgtaaccaacaagttgaattgaactaaaatatttaaatt
29920048

Query: 670 acaaaatagatat 682

||||
Sbjct: 29920047 acaatatatatat 29920035

Score = 63.9 bits (32), Expect = 1e-07
Identities = 65/76 (85%)
Strand = Plus / Plus

Query: 723 aatacaacaaaaatttttaaatacaaaacaatatggcataaaattaatgttgttggcctga
782

||||
Sbjct: 27383043 aatagaacaaaatttttaaatacaaaagaatatgacataaatctaacattgttggcctga
27383102

Query: 783 gcctacacaatggggg 798

|||||
Sbjct: 27383103 gcctacatagtggggg 27383118

Score = 63.9 bits (32), Expect = 1e-07
Identities = 38/40 (95%)
Strand = Plus / Minus

Query: 554 tcctttgtatTTTTATTTTATTtgattattataatacata 593

|||||
Sbjct: 29920148 tcctttgtatTTTcattttatttgattattaaaatacata 29920109

Score = 61.9 bits (31), Expect = 4e-07
Identities = 61/71 (85%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgtatac
864

|||||
Sbjct: 29971025 gacacacggaacattgcttttggttgacttgattctcgaatatccatttcggtgtggatac
29971084

Query: 865 gagaggagaca 875
|||||||
Sbjct: 29971085 gagaggagaca 29971095

Score = 60.0 bits (30), Expect = 2e-06
Identities = 141/178 (79%)
Strand = Plus / Minus

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
1228
|||||||
Sbjct: 2724005 attgtctcctagaccaagaatcgtgtgtagcatcgattgaacttaagaatattgtgagta
2723946

Query: 1229 tttgccttttctgtatgtctttcatagccttggtttaataacttttgataaaacttcacca
1288
|||||||
Sbjct: 2723945 tttgccttttctgtgcgtcttcgatggcttggttagtacttgcatataaacttggcta
2723886

Query: 1289 aatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacctag
1346
|||
Sbjct: 2723885 gatgcaagcattgctgcagctgctctccctcttttggttgaacaatgcattacacctag
2723828

Score = 60.0 bits (30), Expect = 2e-06
Identities = 81/98 (82%), Gaps = 10/98 (10%)
Strand = Plus / Plus

Query: 463 tttaaattgaaaacaatattatttttcatatggttggttaattcttaatttcttatgcatat
522
|||||||
Sbjct: 28030112 tttaaattgaaaataattttattttgcatgtggttggttaattttt-----tgcatat
28030162

Query: 523 tttatgttttatcatttttt-aagagttgaaatccttt 559
|||
Sbjct: 28030163 tttttgttttatcattttttgaagagttggaatccttt 28030200

Score = 60.0 bits (30), Expect = 2e-06
Identities = 69/82 (84%)
Strand = Plus / Plus

Query: 1797 aatatagaaaacatagtaattatttcctcatcatcttgacgacatacatgccctgtactga
1856

|||| |||||||||||| |||| |||||||||||||||| | | |||||||| | | |
Sbjct: 31005890 aataaagaaaacatagtggttatatcctcatcatcttgcaacttgcatgccctattgtaa
31005949

Query: 1857 aaacaatcaccaacaaatgata 1878

|||||||||| | ||||||||
Sbjct: 31005950 aaacaatcactagcaaatgata 31005971

Score = 60.0 bits (30), Expect = 2e-06
Identities = 75/90 (83%)
Strand = Plus / Plus

Query: 1645 attcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaagagcttg
1704

|||||||||||||| | || | || || || || || || || || || || || || || || || || ||
Sbjct: 37169293 attcaagggttcattgcttaatacaagatattcatccaaaccatcaaaattgaaagagggtg
37169352

Query: 1705 cagaaactggtggtggttgatgatgttt 1734

|||||| |||| | | |||||| ||||||
Sbjct: 37169353 cagaaattggtgatagatgtgcacatgttt 37169382

Score = 58.0 bits (29), Expect = 7e-06
Identities = 44/49 (89%)
Strand = Plus / Minus

Query: 1443 tgcgagagtccacttttcttgtggaatcttcctaagctaattaattggt 1491

|||||||||||| |||| | |||||| |||||| |||||| |||||| ||
Sbjct: 24228406 tgcgagagtccatttttctcatggaatctccctaagccaattaattggt 24228358

Score = 58.0 bits (29), Expect = 7e-06
Identities = 36/37 (97%), Gaps = 1/37 (2%)
Strand = Plus / Plus

Query: 529 ttttatcatttttt-aagagttgaaatcctttgtatt 564

|||||||||||| ||||||||||||||||||
Sbjct: 27382697 ttttatcattttttgaagagttgaaatcctttgtatt 27382733

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 554 tcctttgtatTTTTATTTTATTTGATTATTATAATACATA 593
|||||
Sbjct: 36247872 tcctttgtatTTTtaattttatttgactattaaaatacata 36247911

Score = 54.0 bits (27), Expect = 1e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatattttaaatt 669
|||||
Sbjct: 28172863 acaagttgaattgaactaaaatattttaaatt 28172833

Score = 54.0 bits (27), Expect = 1e-04
Identities = 30/31 (96%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatattttaaatt 669
|||||
Sbjct: 29970884 acaagttgaattgaactaaaatattttaaatt 29970914

Score = 52.0 bits (26), Expect = 4e-04
Identities = 38/41 (92%), Gaps = 2/41 (4%)
Strand = Plus / Plus

Query: 516 tgcataTTTTATGTTTTATCATTTTTT--AAGAGTTGAAAT 554
|||||
Sbjct: 29911544 tgcataTTTTtGTTTTATCATTTTTTgaagagttgaaat 29911584

Score = 52.0 bits (26), Expect = 4e-04
Identities = 39/42 (92%), Gaps = 1/42 (2%)
Strand = Plus / Minus

Query: 519 atattttatgTTTTATCATTTTTT-AAGAGTTGAAATCCTTT 559
|||||

Sbjct: 33482093 atatTTTTTgtgttatcattTTTTtgaagagttgaaatccttt 33482052

Score = 50.1 bits (25), Expect = 0.002
Identities = 44/49 (89%), Gaps = 1/49 (2%)
Strand = Plus / Minus

Query: 1554 atacaacaat-gaacaacacacatgacaactacaaatcattaaata 1601
||||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2720540 atacaacaattgaaaaacacacatgatgactacgaatcattaaata 2720492

Score = 50.1 bits (25), Expect = 0.002
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 1388 tttcttgagtaccaaattaattaactcag 1416
||||| ||||| ||||| ||||| |||||
Sbjct: 2723793 tttcttgagtaccaaattaattgactcag 2723765

Score = 50.1 bits (25), Expect = 0.002
Identities = 52/61 (85%)
Strand = Plus / Plus

Query: 1302 ttgcgacttctctcccccttttggttgaacaatgcattacacctagtatagggttgatttta
1361
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29971460 ttgcggttctctccctcttttgctgaacaacgcattacaccttagatatgttgatttta
29971519

Query: 1362 c 1362
|
Sbjct: 29971520 c 29971520

Score = 50.1 bits (25), Expect = 0.002
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattattataatacata 593
||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46452416 tattttcattttatttgattattaaaatacata 46452448

Score = 48.1 bits (24), Expect = 0.006
Identities = 81/100 (81%)
Strand = Plus / Minus

Query: 1245 tgtctttcatagccttggttaataacttttgataaaacttcaccaaagtgaatcactcttg
1304
 ||||| || ||||| ||||| ||||| | || || | || |
Sbjct: 19721610 tgtctttgattgccttggttagtacttccatataaacttgatcagatgcaagcattgttg
19721551

Query: 1305 cgacttctctcccccttggtgaacaatgcattacacct 1344
 || |||| | || ||||| ||||| |||||
Sbjct: 19721550 cggcttctgtccttctttgttggaacaatgcataaacct 19721511

Score = 48.1 bits (24), Expect = 0.006
Identities = 87/108 (80%)
Strand = Plus / Plus

Query: 856 tgtgtatacgagaggagacatgacaaccttagaatttcttttcatttttgggttggggc
915
 ||| ||||| ||||| || || ||||| ||||| | | |||| |
Sbjct: 27383198 tgtggatacgagaggagatggaacgacccttagaatttattttcttctctgggtcaaggc
27383257

Query: 916 aaattcttggttggtgacatggtgaccaacatgcttcattgcacaatt 963
 | ||||| ||||| ||||| | || | |||| | |||||
Sbjct: 27383258 agattcttgccttggtgacatggtggctaataagcttcgttgcacaatt 27383305

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 ||||| ||||| ||||| |||||
Sbjct: 2724289 acaagttgaattgaacttaaataatttaaatt 2724259

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 ||||||| | |||||||||||||||||||
Sbjct: 19788484 acaagttcaattgaactaaaatatttaaatt 19788454

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 477 aatattatTTTTcatatgTTgtt 499
 |||||||||||||||||
Sbjct: 27786061 aatattatTTTTcatatgTTgtt 27786083

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 410 aattgtttgtatTTTTatTTTTTTgttatt 440
 ||||||| ||||||||| |||||||||
Sbjct: 27796378 aattgttttatTTTTatTTTTTTgttatt 27796348

Score = 46.1 bits (23), Expect = 0.025
Identities = 38/43 (88%)
Strand = Plus / Minus

Query: 166 TTTTTTatccaaataataaaaaaaaaaattaattatttaccctaaa 208
 ||||||| | ||||||||||||| |||| ||||||||| |||||
Sbjct: 27796639 TTTTTacctaataataaaaaataaatgaattatttatccaaa 27796597

Score = 46.1 bits (23), Expect = 0.025
Identities = 38/43 (88%)
Strand = Plus / Minus

Query: 1302 ttgCGacttctctccccctttggttgaacaatgcattacacct 1344
 |||| ||||||| | |||| |||||||||||||||||
Sbjct: 28172232 ttgcaacttctctttctcttttgttgaacaatgcattacacct 28172190

Score = 46.1 bits (23), Expect = 0.025

Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaattattta 202
|||||||
Sbjct: 41030253 aataaaaaaaaaattaattattta 41030231

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 385 tgcttttttttttgttttgttt 406
|||||||
Sbjct: 862215 tgcttttttttttgttttgttt 862236

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 665 aaattacaaaatagatatgaaa 686
|||||||
Sbjct: 2515207 aaattacaaaatagatatgaaa 2515228

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||||
Sbjct: 11239290 aaattaaaaaatatatatttaa 11239311

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||||
Sbjct: 11272392 aaattaaaaaatatatatttaa 11272413

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 11304045 aaattaaaaaatatatatttaa 11304066

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 11343227 aaattaaaaaatatatatttaa 11343248

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 11382674 aaattaaaaaatatatatttaa 11382695

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 11417075 aaattaaaaaatatatatttaa 11417096

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||

Sbjct: 11445597 aaattaaaaaatatatatttaa 11445618

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 11494072 aaattaaaaaatatatatttaa 11494093

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 11666736 aaattaaaaaatatatatttaa 11666757

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 11960009 aaattaaaaaatatatatttaa 11959988

Score = 44.1 bits (22), Expect = 0.098
Identities = 34/38 (89%)
Strand = Plus / Minus

Query: 1432 ccaccatcccatgcgagagtcacttttcttggtgaat 1469
||||| ||| ||||| |||||
Sbjct: 19667081 ccaccatctcatgaaagagtcatttttcttggtgaat 19667044

Score = 44.1 bits (22), Expect = 0.098
Identities = 34/38 (89%)
Strand = Plus / Minus

Query: 556 ctttgatatttttattttatttgattattataatacata 593
||||| |||| |||||||||||| ||| |||||||
Sbjct: 28030993 ctttgatgttttcattttatttgattgttaaatacata 28030956

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 409 aaattgtttgtatttttatttttttt 434
|||||||||||||| |||||||
Sbjct: 32024815 aaattgtttgtattttaatttttttt 32024790

Score = 44.1 bits (22), Expect = 0.098
Identities = 37/42 (88%)
Strand = Plus / Plus

Query: 641 aagttgacttgaactaaaatatttaaattacaaaatagatat 682
|||||| || |||||||||||||| |||||| ||| |||
Sbjct: 36247947 aagttgaattcaactaaaatatttagattacaatatatatat 36247988

Score = 44.1 bits (22), Expect = 0.098
Identities = 61/74 (82%)
Strand = Plus / Plus

Query: 1416 gtgtcccatcgccagccaccatcccatgagagagtcacttttcttggtggaatcttcct
1475
|||||||||| | ||| |||| |||||| ||| |||||||| | |||||| ||
Sbjct: 36248613 gtgtcccatcgctcgaccatcatctcatgcaaagttcacttttctcatagaatcttgct
36248672

Query: 1476 aagctaattaattg 1489
||| ||||||||
Sbjct: 36248673 gagccaattaattg 36248686

Score = 42.1 bits (21), Expect = 0.39
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 843 atatccattttggtgtgtatcacgagaggagaca 875

|||||
Sbjct: 2724110 atatccatttcggtgtggatatgagaggagaca 2724078

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 412 ttgtttgtatTTTTATTTTTTTTgt 436
|||||
Sbjct: 26656216 ttgtttgtatTTTTATTTTTTTTgt 26656240

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatttaa 635
|||||
Sbjct: 35724297 aattaaaaaatatatatttaa 35724317

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 340 aaaaccaagttaagaaatcggttccttgg 368
|||||
Sbjct: 36247228 aaaaccacgttatgaaatcggttccttgg 36247200

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 1859 acaatcaccaacaaatgatac 1879
|||||
Sbjct: 37169507 acaatcaccaacaaatgatac 37169527

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 332 tttttttcaaaaccaagttaagaaatcgg 360
 ||||||| |||||||||||||||| |||||
Sbjct: 38435063 ttttttttaaaaccaagttaagaattcgg 38435091

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 565 tttattttatttgattattataata 589
 |||||||||||||||||| |||||
Sbjct: 41244093 tttattttatttgattattttaata 41244117

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttta 408
 ||||||||||||||||||
Sbjct: 41379151 ttttttttttgttttgtttta 41379131

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 876 tgacaacctttagaatttctt 896
 ||||||||||||||||||
Sbjct: 44198853 tgacaacctttagaatttctt 44198833

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 609 aattgaaattaaaaaatata 628
 ||||||||||||||||||
Sbjct: 524485 aattgaaattaaaaaatata 524504

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattt 633
|||||||
Sbjct: 808316 aaattaaaaaatatatattt 808335

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaaaa 411
|||||||
Sbjct: 3107806 ttttttttttgttttgttttaaaa 3107829

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 328 attttttttttcaaaaccaa 347
|||||||
Sbjct: 3735557 attttttttttcaaaaccaa 3735576

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaaaa 411
|||||||
Sbjct: 6192365 ttttttttttgtttttttttaaaa 6192342

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaaattaattat 199
|||||||
Sbjct: 8569033 aaataataaaaaaataattaattat 8569056

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 384 ttgctttttttttttgttttgtttt 407
 ||||| |||||
Sbjct: 9406495 ttgcttttggttttggtttgtttt 9406472

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 175 caaataataaaaaaaaaattaatta 198
 ||||| |||||
Sbjct: 14300485 caaataatatataaaaaaattaatta 14300508

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 118 atcgaaaaagaaaaagaaa 137
 ||||| |||||
Sbjct: 24843899 atcgaaaaagaaaaagaaa 24843880

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 1500 ttggccttaaaacacacatgacaa 1523
 ||||| |||||
Sbjct: 27789754 ttggcttttaaaacacacatgacaa 27789777

Score = 40.1 bits (20), Expect = 1.5
Identities = 27/28 (96%), Gaps = 1/28 (3%)
Strand = Plus / Minus

Query: 320 aaatgttcattttttttttcaaaaccaa 347

|||||
Sbjct: 29319600 aaatgttcatttttttttt-aaaaccaa 29319574

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaattaa 195
|||||
Sbjct: 29532813 aaataataaaaaaaaaattaa 29532794

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1500 ttggccttaaaacacacatgacaa 1523
|||||
Sbjct: 29916021 ttggcattaaaacacacatgacaa 29915998

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 1388 tttcttgagtaccaaattaattaactca 1415
|||||
Sbjct: 29919274 tttcttgattaccaaattaattgactca 29919247

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 390 ttttttttgttttgttttaaaatt 413
|||||
Sbjct: 31580519 ttttttttgttttattttaaaatt 31580496

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 425 tattttttttgttattaatt 444
 |||||||
Sbjct: 31932751 tattttttttgttattaatt 31932770

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 416 ttgtattttttattttttttgttat 439
 ||||||| |||||||
Sbjct: 33654720 ttgtattttttattttttttgttat 33654697

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1522 aaatatatttttattataaaaac 1541
 |||||||
Sbjct: 34581354 aaatatatttttattataaaaac 34581335

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 735 attttaaaatacaaacaata 754
 |||||||
Sbjct: 35878382 attttaaaatacaaacaata 35878363

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 492 atgttggttaattcttaattt 511
 |||||||
Sbjct: 36004477 atgttggttaattcttaattt 36004458

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 36576434 ttttttttttgttttgtttt 36576415

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 36837238 ttttttttttgttttgtttt 36837219

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttttgtt 437
 |||||
Sbjct: 37853768 gtttgtattttcatttttttgtt 37853791

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 329 ttttttttttcaaaaccaagttaa 352
 |||||
Sbjct: 38630921 ttttttttttcaaaaccaaattaa 38630898

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgatt 580
 |||||
Sbjct: 41864467 tatttttattttatttgatt 41864486

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 406 ttaaaattgtttgtatttttatttttt 433
 ||||| ||||| ||||| |||||
Sbjct: 43039675 ttaaacttggtttttatttttatttttt 43039702

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 122 aaaaagaaaaaagaaatgca 141
 ||||| ||||| ||||| |||||
Sbjct: 47102969 aaaaagaaaaaagaaatgca 47102988

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 418 gtatttttattttttttgt 436
 ||||| ||||| ||||| |||||
Sbjct: 111406 gtatttttattttttttgt 111424

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 128 aaaaagaaatgcatgtat 146
 ||||| ||||| ||||| |||||
Sbjct: 1523568 aaaaagaaatgcatgtat 1523550

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 388 tttttttttgttttgttttaa 410

||||| |||||||||
Sbjct: 1794673 tttttattttgtttgttttaaa 1794695

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 713 aatttgaaataataacaacaaaaa 735
||||| |||||||||
Sbjct: 2094493 aatttgaaataatacaaaaaaaaa 2094471

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 563 tttttattttatttgatta 581
||||| |||||||||
Sbjct: 3525470 tttttattttatttgatta 3525452

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 393 tttttgttttgttttaaaa 411
||||| |||||||||
Sbjct: 3608755 tttttgttttgttttaaaa 3608773

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 557 tttgtatttttattttatt 575
||||| |||||||||
Sbjct: 3628928 tttgtatttttattttatt 3628946

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 273 acattttttttatacattta 291
 |||||
Sbjct: 4337862 acattttttttatacattta 4337880

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaattattta 202
 |||||
Sbjct: 7315803 aataaaaaaaaaattattttattta 7315781

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttttgttttgtttt 407
 |||||
Sbjct: 8361733 ttttttttttgttttgtttt 8361751

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatattttttattataaaa 1540
 |||||
Sbjct: 8532081 aaatattttttattataaaa 8532063

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 416 ttgtattttttattttttttt 434
 |||||
Sbjct: 8981232 ttgtattttttattttttttt 8981214

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 412 ttgtttgtatTTTTATTTTTTTT 434
 ||||||||||||||||| ||||
Sbjct: 9107676 ttgtttgtatTTTTATTTATTTT 9107698

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 470 tgaaaacaatattatTTTT 488
 |||||||||||||||||
Sbjct: 12211557 tgaaaacaatattatTTTT 12211575

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 563 tttttatTTTATTTGATTATTAT 585
 ||||||||||||||||| ||||||||
Sbjct: 13619429 tttttatTTTATTTTATTATTAT 13619407

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 179 taataaaaaaaaaattaatt 197
 |||||||||||||||||
Sbjct: 16599727 taataaaaaaaaaattaatt 16599745

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 412 ttgtttgtatTTTTATTTTTTTT 434
 ||||||||||||||||| ||||||||
Sbjct: 18433862 ttgtttgtatTTTTGTTTTTTTTT 18433884

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacatTTtagaaatt 297
 |||||
Sbjct: 20798112 ttttatacatTTtagaaatt 20798130

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 419 tatttttattttttttggt 437
 |||||
Sbjct: 20867162 tatttttattttttttggt 20867144

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaatta 198
 |||||
Sbjct: 25470731 aataaaaaaaaaattaatta 25470713

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacatTTtagaaatt 297
 |||||
Sbjct: 26967025 ttttatacatTTtagaaatt 26967043

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacatTTtagaaatt 297

```
          |||||
Sbjct: 29014995 ttttatacatttagaaatt 29015013
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 184      aaaaaaaattaattattta 202
              |||||
Sbjct: 29584020 aaaaaaaattaattattta 29584002
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 617      ttaaaaaatatatatttaa 635
              |||||
Sbjct: 30948811 ttaaaaaatatatatttaa 30948829
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

```
Query: 176      aaataataaaaaaaaaattaatta 198
              ||||| |||||
Sbjct: 31200780 aaataagaaaaaaaaattaatta 31200802
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 389      ttttttttgttttgtttt 407
              |||||
Sbjct: 31422252 ttttttttgttttgtttt 31422270
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 521 attttatgttttatcatttttta 543
||||||| |||||
Sbjct: 32096719 attttatgttctatcatttttta 32096697

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 561 tattttttattttatttgattatt 583
||||||| |||||
Sbjct: 34500541 tattttttattttatttgattatt 34500519

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 419 tattttttattttttttgtt 437
||||||| |||||
Sbjct: 34714059 tattttttattttttttgtt 34714041

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 419 tattttttattttttttgtt 437
||||||| |||||
Sbjct: 35633162 tattttttattttttttgtt 35633144

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 558 ttgtattttttattttatttgatt 580
||| ||||| |||||
Sbjct: 35912703 ttgtattttttattttatttgatt 35912725

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
|||||||
Sbjct: 36753548 aaattaaaaaatatatatt 36753566

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttt 432
|||||||
Sbjct: 39061422 gtttgtatttttatttttt 39061440

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
|||||||
Sbjct: 39273650 tttttttttgttttgtttt 39273632

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
|||||||
Sbjct: 39601322 aaatatattttattataaaa 39601304

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 375 acttcttaattgctttttt 393
|||||||
Sbjct: 39791180 acttcttaattgctttttt 39791162

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 616 attaaaaaatatatattta 634
|||||||
Sbjct: 39838669 attaaaaaatatatattta 39838651

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
|||||||
Sbjct: 40243983 gtttgtatttttatttttt 40243965

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 383 attgcttttttttttgttttgtttta 409
||||||| || |||||
Sbjct: 40502621 attgcttggttgttttgttttgtttta 40502595

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 684 aaattacaaacaatagaacaaaa 706
|||||| |||||
Sbjct: 41682519 aaattataaacaatagaacaaaa 41682497

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaatta 194

|||||
Sbjct: 41928604 aaataataaaaaaaatta 41928586

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 416 ttgtatTTTTtattTTTTTT 434
|||||
Sbjct: 42139894 ttgtatTTTTtattTTTTTT 42139912

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 164 ttttttttatccaaataat 182
|||||
Sbjct: 42719409 ttttttttatccaaataat 42719427

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaattaatta 198
|||||
Sbjct: 42757974 aataaaaaaaattaatta 42757956

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatTTTTtattataaaa 1540
|||||
Sbjct: 43229691 aaatatTTTTtattataaaa 43229709

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 380 ttaattgcttttttttttgtttt 402
 |||||
Sbjct: 44046729 ttaattgctttttttttttttt 44046707

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 557 tttgtatttttattttatt 575
 |||||
Sbjct: 44443758 tttgtatttttattttatt 44443740

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 380 ttaattgcttttttttttg 398
 |||||
Sbjct: 45162737 ttaattgcttttttttttg 45162755

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1529 tttattataaaacaaacac 1547
 |||||
Sbjct: 45241028 tttattataaaacaaacac 45241010

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 385 tgcttttttttttgttttgtttt 407
 |||||
Sbjct: 45873714 tgcttttttttttgttttctttt 45873736

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
|||||||
Sbjct: 46928673 aaattaaaaaatatatatt 46928691

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 419 tattttttatttttttttgtt 437
|||||||
Sbjct: 47015591 tattttttatttttttttgtt 47015609

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatat 631
|||||||
Sbjct: 47958186 gaaattaaaaaatatatat 47958168

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 178 ataataaaaaaaaaattaat 196
|||||||
Sbjct: 48835655 ataataaaaaaaaaattaat 48835637

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 187 aaaaattaattatttaccctaaa 209
||||| |||||
Sbjct: 49424320 aaaaataattatttaccctaaa 49424298

Score = 38.2 bits (19), Expect = 6.1
 Identities = 22/23 (95%)
 Strand = Plus / Plus

Query: 554 tcctttgtatTTTTATTTATTT 576
 ||||| ||||||||||||||||
 Sbjct: 50201989 tccttggtatTTTTATTTATTT 50202011

Score = 38.2 bits (19), Expect = 6.1
 Identities = 19/19 (100%)
 Strand = Plus / Plus

Query: 182 taaaaaaaaaattaattatt 200
 ||||||||||||||||
 Sbjct: 50440193 taaaaaaaaaattaattatt 50440211

>[gb|CM000850.1](#) Glycine max chromosome 17, whole genome shotgun sequence
 Length = 41906774

Score = 349 bits (176), Expect = 1e-93
 Identities = 271/300 (90%), Gaps = 7/300 (2%)
 Strand = Plus / Minus

Query: 427 ttttttttgttattaattgtctatatatttggttctgtttaaattgaaaacaatattattt
 486
 ||||| ||||||||||||| ||||| ||| ||||||| |||||||||||||
 Sbjct: 36545343 ttttttggttattaattgtatatatttatgttttggttaactgaaaacaatattattt
 36545284

Query: 487 ttcatatgttggttaattcttaatttcttatgcatatTTTatgTTTTatcattttttaaga
 546
 ||||||||||||| ||||| || ||||||||||||||||| |||||||||
 Sbjct: 36545283 ttcatatgttggtg---ttaattttttg-gcatatTTTatgTTTTat--ttttttaaga
 36545231

Query: 547 gttgaaatcctttgtatTTTTATTTATTTgattattataatacataattaacaacaac
 606
 ||||||||||||||||| ||||||||||||||||| ||||||||| |||||
 Sbjct: 36545230 gttgaaatcctttgtatTTTcattttatttgattattaacatacataattaatcaacaac
 36545171

Query: 607 ttaattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaa
 666

|||||
Sbjct: 36545170 ttaattgaaataaaaatatatatatttaagcaacaagttgaattgaattaaaatatctaa
36545111

Query: 667 attacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataata
726

|||||
Sbjct: 36545110 attacaaaatagatatataaaattacaaacaatagaacaaaatattttaaatttgaaacaata
36545051

Score = 309 bits (156), Expect = 1e-81
Identities = 314/363 (86%), Gaps = 14/363 (3%)
Strand = Plus / Plus

Query: 415 tttgtatTTTTtattTTTTtg-ttattaattgtctatatTTTgtgttctgtttaaattgaa
473

|||||
Sbjct: 39182736 tttgtatTTTtaattTTTgtgggttattaattgtctatatTTtatgtTTTgtttaaactaaa
39182795

Query: 474 aacaatattatttttcatatgTTgttTaattcTTaatttcttatgcatattttatgTTTTa
533

|| |||
Sbjct: 39182796 aataattttattttttatatgTTgttTaattttt-----tgcatattttatgTTTTa
39182847

Query: 534 tcattttttt-aagagttgaaatcctttgtatttttattttatttgattattataatacat
592

|||||
Sbjct: 39182848 tcattttttgaagaattgaaatcctttgtatttttattttatttaattattaaaatacat
39182907

Query: 593 aattaaacaacaacttaattgaaattaaaaaatatatatttaactgacaagttgacttga
652

|||||
Sbjct: 39182908 aattaatcaacaacttaattggaattaaaaaa--atattcaaccaacaagttaaattga
39182964

Query: 653 actaaaatattttaaattacaaaatagatatgaaattacaaacaatagaacaaaatattta
712

|||||
Sbjct: 39182965 gctaaaacattttaaattacaaaataggtataaaattacaaacaatagaacaaaatattta
39183024

Query: 713 aatttgaaataatacaacaaaaatttttaaatacaaaacaatatggcataaaattaatggt
772

|||||

```
Query: 1838      catacatgccctgtactgaaaacaatcaccaaca 1871
              ||| ||||||||| | | | | | | | | | | | | | | | | |
Sbjct: 33991166 tatgcacgccctgtactgaaacgatcaccaaca 33991133
```

Score = 266 bits (134), Expect = 1e-68
Identities = 299/345 (86%), Gaps = 13/345 (3%)
Strand = Plus / Minus

Query: 421 tttttatTTTTTTTgttattaattgtctatatTTTgtgttctgtttaaattgaaaacaata
480
Sbjct: 8892018 tttttatTTTTTTTgtgttatttattgtttatatTTtatgtt-tctttaaacggaaaataata
8891960

Query: 481 ttatTTTTcatatgttggttaattcttaatttc-ttatgcatatTTTtatgttttatcattt
539
Sbjct: 8891959 ttgtTTTTtatatgttggtg---ttaattttgttttacatatTTTtatgttttatcatgt
8891904

Query: 540 tttta-gagttgaaatcctttgtatTTTTatTTTtatttgattattataatacataattaa
598
Sbjct: 8891903 tttaatgagttgaatt--TTTTTatTTTcattttatttgattatcaaaatacataattaa
8891846

Query: 599 acaacaacttaattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaa
658
Sbjct: 8891845 tcaacaacttaatttaaatttaaaaa-acatatTTaaccaacaagttgaattgaactaaa
8891787

Query: 659 atattttaaattacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttg
718
Sbjct: 8891786 atattttaaagttacaaaatagatatgaaattac--ataatagaacaaaatattttaaatttg
8891729

Query: 719 aaataatacaacaaaaattttaaaatacaaacaaatatggcataaa 763
Sbjct: 8891728 aaataatac-acaaaactttttaaaatacaaacaaatatgacataaa 8891685

Score = 230 bits (116), Expect = 8e-58
Identities = 280/332 (84%), Gaps = 2/332 (0%)
Strand = Plus / Plus

Query: 1549 cagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattac
1608

Sbjct: 6991859 ||||| ||||||| ||||||| ||||||| ||||||| ||||||| | ||||||| |
6991914 tgtttggtttaaactgaaaataatattattttacatatgttgt----tgtaattttgtg

Query: 516 tg--catatTTTTatgTTTTatcattTTTT-aagagttgaaatcctttgtatTTTTatTTT
572
|| ||||||||||||||||||||||||||||||||||||||||
Sbjct: 6991915 tgtgcatatTTTTatgTTTTatcattTTTTgaagagtttaaactctttgtatTTTcatt-
6991973

Query: 573 atttgattattataataacataattaacaacaacttaattgaaattaaaaaatatatatt
632
|||||||||||||| |||||||||||||||| || |||||||||||||||||||||||| |||||
Sbjct: 6991974 atttgattattaaaaatacataattaatcaataacttaattgaaattaaaaa----atatt
6992029

Query: 633 taactgacaagttgacttgaactaaaatatTTaaattacaaaatagatatgaaattacaa
692
|||| |||||||| | |||||||||||||| |||||||||| |||||| |||| |||||||||
Sbjct: 6992030 taaccaacaagttaaattgaactaaaacattTaaattaaaaaatacatataaaattaca-
6992088

Query: 693 acaatagaacaaaatatTTaaatttgaaataatacaacaaaaattTTaaatatcaaaacaa
752
|||| |||||||||||||||||| |||||||||| ||||| |||| ||||| |||||||
Sbjct: 6992089 -----agaa-aaaatatTTaaattTaaataatagaacaattTTTTTTaaatataaacaa
6992142

Query: 753 tatggcataaaaattaat 769
|||| | |||||||||||
Sbjct: 6992143 tatgacctaaaattaat 6992159

Score = 214 bits (108), Expect = 5e-53
Identities = 251/291 (86%), Gaps = 12/291 (4%)
Strand = Plus / Plus

Query: 436 ttattaattgtctatatTTTgtgTctgTTTaaattgaaaacaatatTTTttcatatgt
495
|||||||||| |||||||||| |||| | |||||| | |||| ||| |||||| |||||||
Sbjct: 3287609 ttattaattatctatatTTTatgTTTTattTaaactaaaaaaaaat--tattttacatatgt
3287666

Query: 496 tgttaattcttaattTcttatgcatatTTTatgTTTTatcattTTTT-aagagttgaaat
554
||||||| |||| || |||||||||||||||||| |||||| ||||| |||||||
Sbjct: 3287667 tgttaatt-----TTTTTTTgcatatTTTatgTTTTattTTTTTTgaagagatgaaat
3287721

Query: 555 cctttgtatTTTTatTTTatttgattattataataacataattaacaacaacttaattga
614

Query: 518 catatTTTTatgTTTTatcattTTTTaagagttgaaatcctttgtatTTTTatTTTatttg
577

Sbjct: 38816269 catatTTTTatgTTTTatcattTTTTgatgagttgaaatcctttatattTTTTatTTTatttg
38816328

Query: 578 attattataatacataattaacaacaacttaatt-gaaattaaaaaatatatattttaac
636

Sbjct: 38816329 attattaaaatacataattaatcaacaacttaattagaattaaaaaaaacatatTTTaaac
38816388

Query: 637 tgac-aagttgacttgaactaaaatattttaaattacaaa 674

Sbjct: 38816389 caacaaagtagatttgaactaaaatattttaaattacaaa 38816427

Score = 165 bits (83), Expect = 4e-38
Identities = 207/247 (83%), Gaps = 6/247 (2%)
Strand = Plus / Minus

Query: 1632 tcttcaaaaacttgattcaaggttcattgtatcatcgaggtattcacccaaaccctccaaa
1691

Sbjct: 36542317 tcttcaaaaacttgattcaag-ttcattgcttcattgaggtattcatccaaaccctccaaa
36542259

Query: 1692 ttcaaagagcttgcagaaactgggtgggtggttgatcatatgtttatgtgggtgtgtctacg
1751

Sbjct: 36542258 ttccaagagcattcaggaattgggtgggtggttgatcatatgtttatgtgtgagtggtgtctacg
36542199

Query: 1752 gtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacata
1811

Sbjct: 36542198 gtggttaagata-----caaggcatgtgtggttgagtgctgcccataatatagaaaacaca
36542144

Query: 1812 gtaattatttcctcatcatcttgcagcatatgacctgtactgaaaacaatcaccaaca
1871

Sbjct: 36542143 gtaactatgttctcatcatctagcagtatgcatgccatgtattgaaaacaattagcaaca
36542084

Query: 1872 aatgata 1878

|||||
Sbjct: 36542083 aatgata 36542077

Score = 161 bits (81), Expect = 6e-37
Identities = 278/343 (81%), Gaps = 3/343 (0%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860

|||||
Sbjct: 33995165 atgcgacacatggaacatctctttggttgacttgattctcgaatattcatttcggtgtgc
33995106

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920

|||||
Sbjct: 33995105 atacaaggggagaagagacgacccttagaatttcttttctactctaggtcagagtaaatt
33995046

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980

|||||
Sbjct: 33995045 attggctcgtgacacggtgatcaatatgcttcattatgcaattctctaacaatcatttg
33994986

Query: 981 tacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgg
1040

|||||
Sbjct: 33994985 tatacggttgagacacttttgcaacttatacacaagatgtatgtagctcttgtagtactcatgg
33994926

Query: 1041 tgagcatgcttataaaca---caacatgagaacaaaacatgtgcattttttgaaatttg
1097

|||||
Sbjct: 33994925 tgagcatgcttacaagcaataacaacatgagaacaaggcatgtgaaatttttgcaatttg
33994866

Query: 1098 tcacagtcacactacctttcatctagcttgaccatgaaatttc 1140

|||||
Sbjct: 33994865 ccacagtcacaccacctttcatccagcctaaccgtgaaatttc 33994823

Score = 155 bits (78), Expect = 4e-35
Identities = 151/173 (87%), Gaps = 3/173 (1%)
Strand = Plus / Plus

Sbjct: 14292507 gcacatgtttgtgtgggtgtgtctggggtggcaatacataactccaggcatgtgagcttg
14292566

Query: 1785 aagagtttcccaaataatagaaaacatagtaattatttcctcatcatcttgcagcatacat
1844

||||| | || ||| ||||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 14292567 gagattcatgcgaacataaaaaacataatcattatgtcctcatcatcatgcaacatgcat
14292626

Query: 1845 gccctgtactgaaaacaatcaccaacaaatgat 1877

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 14292627 cccctgtactggccacaatcaccaacaaatgat 14292659

Score = 149 bits (75), Expect = 2e-33
Identities = 291/359 (81%), Gaps = 8/359 (2%)
Strand = Plus / Minus

Query: 1005 gtatacacaagatgtatgtagttcctataactcatggtgagcatgcttataaacaacaaca
1064

||||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15661294 gtatacataatatgtatgtagttcctataactcatggtgacatgcttacaatatagcaaca
15661235

Query: 1065 t---gagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
1121

| ||||| || | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15661234 taatgagaataagtc--gtgcactttttggaatttgtcaccaatcacaccacctttcatcc
15661177

Query: 1122 agcttgaccatgaaatttctcactagttgaatctctctctccagttaattgtctcctaga
1181

| | |||| | ||||| ||||| | ||| ||||| |||| | ||||| ||||| | |
Sbjct: 15661176 atcctgacagtgaaatttct-agaagtcgaatctttctcg--agttaattgtgtgttgca
15661120

Query: 1182 ctaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttct
1241

||||||| | |||| ||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15661119 ctaagaattatgtgtcacatcgatcaaactcaagaacaatgtgagaatttttctttctct
15661060

Query: 1242 gtatgtctttcatagccttgtttaatacttttgtataaaacttcaccaaataatcactc
1301

|| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15661059 gtgtgtcttccatagtccttgtttagtacttatgtataaaacttggtcagacgtaatacattg
15661000

Query: 1302 ttgcgacttctctccccctttgggtgaacaatgcattacacctagtatagggtgatttt
1360

||| |||| ||| || | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 15660999 ttgtaactttttcttccttttttggttgaacaatgcattacaacttgtgtagggtgatttt
15660941

Score = 143 bits (72), Expect = 1e-31
Identities = 124/140 (88%), Gaps = 1/140 (0%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
698

Sbjct: 23459986 acaagttgaattgaactaaaatatttaaacacaaaatattt-taaaattaccaacaaca
23460044

Query: 699 gaacaaaatattttaatttgaaataatacaacaaaaattttaaaatacaaacaatatggc
758

Sbjct: 23460045 gaacaaaatattttaatttgaaaaatacaacaaaattttaaaatacaaagaatatgac
23460104

Query: 759 ataaaaattaatgttggttggc 778
||||| | || |||||

Sbjct: 23460105 ataaattcaacgttggttggc 23460124

Score = 141 bits (71), Expect = 6e-31
Identities = 174/207 (84%), Gaps = 1/207 (0%)
Strand = Plus / Minus

Query: 1156 ctctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
1215

Sbjct: 31759357 ctctctcgggttaattgtctcctagaccaagaatcgtgtgtcacatcaattgaacttaag
31759298

Query: 1216 aacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgt
1275

Sbjct: 31759297 aataatgtgagcattttcctttctctatgcgtcttccatggccttgtttagtacttgcat
31759238

Query: 1276 ataaacttcaccaaagtgaatcactcttgcgacttctctcccccttttggttgaacaatgc
1335

Sbjct: 31759237 ataaacttcaccaaagtgaagcattgttgtgatttctctccctcttttggttg-acaatgt
31759179

Query: 668 ttacaaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataatac
727

Sbjct: 15661644 ttagaaaatagatatataaaatttcaaacaatagagaaaaatatttaaatttgaaacaatac
15661585

Query: 728 aa 729
||
Sbjct: 15661584 aa 15661583

Score = 123 bits (62), Expect = 1e-25
Identities = 164/198 (82%)
Strand = Plus / Plus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224
|||||
Sbjct: 41584583 gttaattgtctccttagaccaagaactgtgtgtcacatcgatcgaactcaagaacaatgtg
41584642

Query: 1225 agagtttgcctttttctgtatgtctttcatagccttggttaatacttttgataaaacttc
1284
||
Sbjct: 41584643 agtgtttgtctttctctgtgcgtcttccatgaccttgtttagtacttgcaaataaactta
41584702

Query: 1285 accaaatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacct
1344
||
Sbjct: 41584703 gtcaaataataagcattggttgcaacgtctctccctttttggttgaacaatgcattacacct
41584762

Query: 1345 agtatagggttgattttac 1362
||
Sbjct: 41584763 tatatatgttgattttac 41584780

Score = 121 bits (61), Expect = 5e-25
Identities = 83/89 (93%), Gaps = 1/89 (1%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
698
||
Sbjct: 20095501 acaagttgaattgaactaaaatatttaaattacaaaatatataaaaattaccaataata
20095560

Query: 699 gaacaaaata-ttttaaatttgaaataata 726

|||||
 Sbjct: 20095561 gaacaaaatatatttaaatttgaaataata 20095589

Score = 117 bits (59), Expect = 8e-24
 Identities = 98/107 (91%), Gaps = 3/107 (2%)
 Strand = Plus / Minus

Query: 519 atatatttatgttttatcatttttt-aagagttgaaatcctttgtatattttatattttatttg
 577

|||||
 Sbjct: 3288304 atatatttatgttttatcattttttgaagagtt-aatttttttgatattttatattttatttg
 3288246

Query: 578 attattataatacataaattaaacaacaacttaattgaaattaaaaaa 624
 |||||
 Sbjct: 3288245 attatta-aatacataactaatcaaaaacttaattgaaattaaaaaa 3288200

Score = 115 bits (58), Expect = 3e-23
 Identities = 129/152 (84%), Gaps = 3/152 (1%)
 Strand = Plus / Minus

Query: 959 caatttcccaagtaatcatttgtacatggttatagatacttttcagcgtatacacaagatg
 1018

|||||
 Sbjct: 8891475 caattccccaaataatcctttgtacagattagagacacttttcaacatatacaactcatg
 8891416

Query: 1019 tatgtagttcctataactcatgggtgagcatgcttataaaca---acaacatgagaacaaaa
 1075

|||||
 Sbjct: 8891415 tatgtagttcctataactcataatgagcatgcttataagcagcaacaacatgagaacaaga
 8891356

Query: 1076 catgtgcatttttttgaaatttgtcacagtcac 1107

|||||
 Sbjct: 8891355 catgtgtatttttttgaaatttgttatagtcac 8891324

Score = 113 bits (57), Expect = 1e-22
 Identities = 99/113 (87%)
 Strand = Plus / Minus

[illegible]

Sbjct: 41584400 acgttgagacatttttcaacgtatacataagatgtatgtaattttgtactcatgggtga
41584459

Sbjct: 41584460 gcatgcttacaagcaacaataacatgagaacaagaaattttcacttttttggaaatttgtc
41584519

```
Query: 1100      acagtcacactacctttcatc 1120
                ||| ||||| | ||||| |||
Sbjct: 41584520 acagtcacaccacctttcatc 41584540
```

Score = 109 bits (55), Expect = 2e-21
Identities = 114/131 (87%), Gaps = 2/131 (1%)
Strand = Plus / Minus

Sbjct: 6094912 acaagttgaattgaagtaaaatatctaaattataaaaatattt-taaaattaccaacaaca
6094854

Sbjct: 6094853 aaacaaaatatttaaatttgaacaatacaacaaaatttttaaataatcaagaatatga
6094794

```
Query: 758      cataaaaattaa 768
          ||||| |||
Sbjct: 6094793 cataaatattaa 6094783
```

Score = 107 bits (54), Expect = 8e-21
Identities = 69/74 (93%)
Strand = Plus / Minus

Query: 1505 cttaaaacacacatgacaaatattttttattataaaacaaacacccagtgatacaacaatg
1564

|||||
Sbjct: 36542515 cttaaaacacacatgatgaatattttttattataaaacaaacactcaataatacaacaatg
36542456

Query: 1565 aacaacacacatga 1578

|||||
Sbjct: 36542455 aacaacacacatga 36542442

Score = 107 bits (54), Expect = 8e-21
Identities = 63/66 (95%)
Strand = Plus / Plus

Query: 684 aaattacaaacaatagaacaaaatattttaatttgaaataatacaacaaaaattttaaaa
743

|||||
Sbjct: 38816418 aaattacaaacaatagaataaaaatattttaatttttaataatacaacaaaaattttaaaa
38816477

Query: 744 tacaaa 749

|||||
Sbjct: 38816478 tacaaa 38816483

Score = 105 bits (53), Expect = 3e-20
Identities = 80/89 (89%)
Strand = Plus / Plus

Query: 706 atattttaatttgaaataatacaacaaaaatttttaaaatacaacaatatggcataaaat
765

||||
Sbjct: 41584097 atatataaatttgaaacaatacaacaaaaatttttaaaatgcaaagaacatggcataaatt
41584156

Query: 766 taatgttggttgagcctgagcctacacaatg 794

|||||
Sbjct: 41584157 taatgttattggccttgagcctataacaatg 41584185

Score = 97.6 bits (49), Expect = 8e-18
Identities = 88/99 (88%), Gaps = 4/99 (4%)
Strand = Plus / Minus

Query: 685 aattacaaacaatagaacaaaatattttaaatttgaaataatacaacaaaaattttaaaat
744

|||||
Sbjct: 33995299 aattacaaacaatagaacaaa-tattttaaatttgaaacaatacaaaaaaa---ttaaaat
33995244

Query: 745 acaaacaatatggcataaaaattaatgttgttggcctgag 783

|||||
Sbjct: 33995243 acaaataatatgacataaagttaacgttgttggcctgag 33995205

Score = 91.7 bits (46), Expect = 5e-16
Identities = 82/94 (87%)
Strand = Plus / Minus

Query: 808 acatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatacgag
867

|||||
Sbjct: 8891612 acatggaacatcattttgattgacctgaacctcgaatatccatcttgatgtgtatatgag
8891553

Query: 868 aggagacatgacaaccttttagaatttcttttcat 901

|
Sbjct: 8891552 aagagatatgacaacctttaaaatttcttttcat 8891519

Score = 91.7 bits (46), Expect = 5e-16
Identities = 67/74 (90%)
Strand = Plus / Minus

Query: 1416 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttgagggaatcttcct
1475

|||||
Sbjct: 15660866 gtgtcccatcgtcggtcaccatcccatgcgagagtccacttttctcgtagaatctccct
15660807

Query: 1476 aagctaattaattg 1489

|||||
Sbjct: 15660806 aagccaattaattg 15660793

Score = 91.7 bits (46), Expect = 5e-16
Identities = 85/98 (86%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860

|||||
Sbjct: 15661498 atgcgacacaggggaatatcggttttgggtgatccggttcttggatatccatttatgtgtgt
15661439

Query: 861 atacgagaggagacatgacaacctttagaattttctttt 898

|||||
Sbjct: 15661438 atacaagaggagacatgacgacctttagaattttatattt 15661401

Score = 89.7 bits (45), Expect = 2e-15
Identities = 60/65 (92%)
Strand = Plus / Plus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
1613

|||||
Sbjct: 23464960 atacaacaatgaaaaacacacatgacgactacaaatcattaaataataaaaatagcaatca
23465019

Query: 1614 aataa 1618

|||||
Sbjct: 23465020 aataa 23465024

Score = 89.7 bits (45), Expect = 2e-15
Identities = 81/93 (87%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860

|||||
Sbjct: 36544960 atgcgacacatgaaacattgttttgggttgacctgattctcggatatctatttcggtgtgt
36544901

Query: 861 atacgagaggagacatgacaacctttagaatttt 893

|||||
Sbjct: 36544900 atatgaaaggagacaaaacgacctttagaatttt 36544868

Score = 89.7 bits (45), Expect = 2e-15
Identities = 51/53 (96%)
Strand = Plus / Plus

Query: 544 agagttgaaatcctttgtatTTTTATTTTATTtgattattataataacataatt 596
 |||||
 Sbjct: 41583939 agagttgaaatcctttatatTTTTATTTTATTtgattattaaaatacataatt
 41583991

Score = 87.7 bits (44), Expect = 7e-15
 Identities = 128/156 (82%)
 Strand = Plus / Plus

Query: 1204 atcgaactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttggt
 1263
 |||||
 Sbjct: 20066501 atcgaactgaagaacaatgtgagcatttgcctttctctgtgtgtcttcaatgaccttggt
 20066560

Query: 1264 taatacttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttg
 1323
 || |||||
 Sbjct: 20066561 tagtacttgcgcatcacacttggtcaaataatgaaggattgttgcgacttgtctccctctttt
 20066620

Query: 1324 gttgaacaatgcattacacctagtatagggtgattt 1359
 |||||
 Sbjct: 20066621 gttgaacaatgccttacaccttatatatgttgattt 20066656

Score = 85.7 bits (43), Expect = 3e-14
 Identities = 106/127 (83%)
 Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
 860
 |||||
 Sbjct: 20066130 atgcgacacatggaacattgctttgggttgacctgggttcttggatatccaattctatgcgt
 20066189

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
 920
 || |||||
 Sbjct: 20066190 gtgcaagaggagacaagaccaccttagaatttcttttcatttttgggtcgaggcagatt
 20066249

Query: 921 cttggct 927
 |||||
 Sbjct: 20066250 attggct 20066256

Score = 85.7 bits (43), Expect = 3e-14
Identities = 136/166 (81%), Gaps = 2/166 (1%)
Strand = Plus / Minus

Query: 1246 gtctttcatagccttgtttaataacttttgtataaaacttcaccaaagtgaatcactcttgc
1305
 ||||| ||| ||||||||| ||||| ||||||||| || ||||||| || | |||||
Sbjct: 33994739 gtcttccatggccttgtttcataacttgcgataaaacttggtcagatgtaagcattgttgc
33994680

Query: 1306 gacttctctccccctttggttgaacaatgcattacacctagtatagggtgattttacca-
1364
 ||||||||| ||||| | ||||||||||||| |||| | ||| ||||||||| |
Sbjct: 33994679 gacttctctccttctttgatcgaacaatgcattataccttatatatgttgattttactag
33994620

Query: 1365 -acacacattgccagattttgtgttttcttgagtaccaaattaatt 1409
 ||| |||| ||||| ||||||||||||||| |||||||||
Sbjct: 33994619 tgcacttattggttagatttcgtgttttcttgagtatcaaattaatt 33994574

Score = 81.8 bits (41), Expect = 5e-13
Identities = 152/189 (80%)
Strand = Plus / Plus

Query: 1156 ctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
1215
 ||||||| ||| ||||||||| ||||| ||||| || ||||||||| || |||||||||
Sbjct: 14288688 ctctctcaggtttattgtctccttagaccaagaaccgtgtgtcgcattgattgaactcaag
14288747

Query: 1216 aacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgt
1275
 ||||||||| ||||| ||||| | ||| ||||| | || | || ||||| ||||| ||
Sbjct: 14288748 aacaatgtgagtgtttgtctttctttgtgtgtcatcgatggccttttttagtacttgagt
14288807

Query: 1276 ataaacttcaccaaagtgaatcactcttgcgacttctctccccctttggttgaacaatgc
1335
 ||||||||| ||| ||| || || | | ||||||||| || | || |||||||||
Sbjct: 14288808 ataaacttggccacatgcaagcattacttcgacttctcttctcctttgttgaacaatgc
14288867

Query: 1336 attacacct 1344
 |||||||||

Sbjct: 14288868 attacacct 14288876

Score = 81.8 bits (41), Expect = 5e-13
Identities = 50/53 (94%)
Strand = Plus / Minus

Query: 544 agagttgaaatcctttgtatTTTTATTTTATTtgattattataatacataatt 596
||||| ||||||||||||||| ||||||||||||||| |||||||||||
Sbjct: 15661751 agagtttaaatacctttgtatTTTcattttatttgattattaaaatacataatt
15661699

Score = 81.8 bits (41), Expect = 5e-13
Identities = 50/53 (94%)
Strand = Plus / Minus

Query: 544 agagttgaaatcctttgtatTTTTATTTTATTtgattattataatacataatt 596
||||||||||| ||||||||||||||||||||||||||||| ||| |||||
Sbjct: 33995459 agagttgaaatcgtttgatTTTTATTTTATTtgattattaaaataaataatt
33995407

Score = 79.8 bits (40), Expect = 2e-12
Identities = 115/140 (82%), Gaps = 10/140 (7%)
Strand = Plus / Plus

Query: 423 tttatTTTTTTTgttattaattgtctatatTTTgtgttctgtttaaattgaaaacaatat
482
||||||||| || ||||||| ||||||||||| ||| ||||||| ||||||| ||| ||
Sbjct: 41583501 tttatTTTTTTatTTTTtaattatctatatTTtatgtttgtttaaactgaaaataatttt
41583560

Query: 483 atTTTTcatatgTTgttaattcttaatttcttatgcataTTTTatgTTTTatcattTTTT
542
||||| ||||||||| | || || ||||||| ||| |||||||||||||||||
Sbjct: 41583561 atTTTTtatatgTTgttca-----TTTTTTgcataattTTTgTTTTatcattTTTT
41583612

Query: 543 --aagagttgaaatcctttg 560
|||||||||||||||
Sbjct: 41583613 taaagagttgaaatcctttg 41583632

Score = 73.8 bits (37), Expect = 1e-10
Identities = 52/57 (91%)
Strand = Plus / Minus

Query: 1433 caccatcccatgcgagaggtccacttttcttgtggaatcttcctaagctaattaattg
1489
|||||
Sbjct: 33994533 caccatcccatgcaagaggtccacttttcttgtggaatcttcctaagctaattaattg
33994477

Score = 71.9 bits (36), Expect = 4e-10
Identities = 208/263 (79%), Gaps = 3/263 (1%)
Strand = Plus / Plus

Query: 1156 ctctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
1215
|||||
Sbjct: 23460508 ctctctcgggtttattgtctcctagaccaagaaccgtgtgtcgtatcaatcaaactcaag
23460567

Query: 1216 aacaatgtgag-agtttgccttttctgtatgtctttcatagccttggttaataacttttg
1274
|||||
Sbjct: 23460568 aacagtgtgagcattttgcctttcttgtgctgtcttcgatgacattgttttagtacatgtg
23460627

Query: 1275 tataaacttcaccaaataatcactcttgcgacttctctccccctttgggtgaacaatg
1334
|||||
Sbjct: 23460628 tataaacttggctagatgtaagcgttggttacgacttctctccctctttcattggacaatg
23460687

Query: 1335 cattacacctagtagataggttgattttaccaacaca--cattgccagattttgtgttttct
1392
|||||
Sbjct: 23460688 cattacaccttagataggttgattttactaacacatttattggcatatttcttgatttct
23460747

Query: 1393 tgagtaccaaattaattaactca 1415
|||||
Sbjct: 23460748 tgagtatcgaattaatcaactca 23460770

Score = 69.9 bits (35), Expect = 2e-09
Identities = 78/91 (85%), Gaps = 1/91 (1%)
Strand = Plus / Plus

Query: 643 gttgacttgaactaaaatattttaaaattacaaaatagatatgaaattacaaacaatagaac 702
 ||||| ||| ||||||||||||||| ||||||||| | | |||| | ||||| | |||
 Sbjct: 14288500 gttgaattggactaaaatattttaaaatacaaaaatattt-taaaatcaccaacaacaaaac 14288558

Query: 703 aaaatattttaaatttgaaataatacaacaaa 733
 ||||||||||||||||||| || |||||||||
 Sbjct: 14288559 aaaatattttaaatttgaaacaaaacaacaaa 14288589

Score = 69.9 bits (35), Expect = 2e-09
 Identities = 66/75 (88%), Gaps = 1/75 (1%)
 Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa 667
 ||||||||| ||||||||||||||| ||||||||| ||||| ||||||| | |
 Sbjct: 33995411 taattgaaat-aaaaaatatatattttaaccaacaagttgaattgaacaaaatattaaga 33995353

Query: 668 ttacaaaatagatat 682
 ||||| ||| ||||
 Sbjct: 33995352 ttacaatatatatat 33995338

Score = 67.9 bits (34), Expect = 7e-09
 Identities = 52/58 (89%)
 Strand = Plus / Plus

Query: 1438 tcccatgcgagaggtccacttttctgtggaatcttcctaagctaattaattgtagtt 1495
 ||||||||||||| ||||||||| ||||||||| ||| ||| ||||||||| |||||
 Sbjct: 39183798 tcccatgcgagaggttccacttttctcgtggaatctccctgagccaattaattgtagtt 39183855

Score = 63.9 bits (32), Expect = 1e-07
 Identities = 41/44 (93%)
 Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatattttaaaattacaaaatagatat 682
 ||||||||| ||||||||||||||| ||||||||| ||| |||||
 Sbjct: 14037651 acaagttgaattgaactaaaatattttaaaattacaatatatatat 14037694

Score = 63.9 bits (32), Expect = 1e-07
Identities = 47/52 (90%)
Strand = Plus / Minus

Query: 436 ttattaattgtctatatatttgtgttctgttttaaattgaaaacaatattatttt 487
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15662265 ttattaattttctatatatttatgttttgttttaaattcaaaataatattatttt 15662214

Score = 63.9 bits (32), Expect = 1e-07
Identities = 57/64 (89%), Gaps = 1/64 (1%)
Strand = Plus / Plus

Query: 1057 caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
1116
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39183415 caacaacataaaaaacaaaacatgt-caccttttggaatttgtcacagtcacaccaccttt
39183473

Query: 1117 catc 1120
 ||||
Sbjct: 39183474 catc 39183477

Score = 58.0 bits (29), Expect = 7e-06
Identities = 59/69 (85%)
Strand = Plus / Plus

Query: 1061 aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
1120
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 23460415 aacatgagaacaaggcatgtgcaattttctggaatttgccatagtcgcaccacctttcatc
23460474

Query: 1121 tagcttgac 1129
 |||| ||||
Sbjct: 23460475 tagcctgac 23460483

Score = 58.0 bits (29), Expect = 7e-06
Identities = 65/77 (84%)
Strand = Plus / Plus

Query: 1803 gaaaacatagtaattattttcctcatcatcttgagcagcatatgccctgtactgaaaacaa
1862

|||||
Sbjct: 23470836 gaaaacatagtcattatgtctttatcatcgtgaaacatgcatgtcctatactggacacaa
23470895

Query: 1863 tcaccaacaaatgatac 1879

|||||
Sbjct: 23470896 tcaccaacaaatgatac 23470912

Score = 58.0 bits (29), Expect = 7e-06
Identities = 50/56 (89%), Gaps = 2/56 (3%)
Strand = Plus / Minus

Query: 505 ttaattttcttatgcatattttatgttttatcattttttaagagttgaaatcctttg 560

|||||
Sbjct: 33995813 ttaattttttatgcatttttt--gttttattatcttttaagagttgaaatcctttg
33995760

Score = 56.0 bits (28), Expect = 3e-05
Identities = 43/48 (89%)
Strand = Plus / Plus

Query: 161 gagttttttttatccaaataataaaaaaaaaaattaattatttaccctaaa 208

|||||
Sbjct: 8890340 gagttttttttatttaaataatataaataaattaattatttatccaaa 8890387

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 554 tcctttgtattttttattttatttgattattataatacata 593

|||||
Sbjct: 23459919 tcctttggattttcattttatttgattattaaaatacata 23459958

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 1432 ccaccatcccatgcgagagtcacttttcttggtggaatct 1471
 |||||
 Sbjct: 23460804 ccaccatcccatgcgagagttcatttttcttgcggaatct 23460843

Score = 56.0 bits (28), Expect = 3e-05
 Identities = 83/99 (83%), Gaps = 3/99 (3%)
 Strand = Plus / Minus

Query: 1022 gtagttcctatactcatggtgagcatgcttataaacaacaac-atg--agaacaaaacat
 1078
 |||||
 Sbjct: 31759492 gtagttcctgtactcatggtgaacatgcttacaagcaacaacaatgaaagagcatggcat
 31759433

Query: 1079 gtgcattttttgaaatttgtcacagtcacactacctttc 1117
 |||||
 Sbjct: 31759432 gtgcaattttgggaatttgccacagtcacaccacctttc 31759394

Score = 54.0 bits (27), Expect = 1e-04
 Identities = 36/39 (92%)
 Strand = Plus / Plus

Query: 1432 ccaccatcccatgcgagagtcacttttcttggtggaatc 1470
 |||||
 Sbjct: 20066748 ccaccatctgatgcgagagtcatttttcttggtggaatc 20066786

Score = 52.0 bits (26), Expect = 4e-04
 Identities = 35/38 (92%)
 Strand = Plus / Plus

Query: 1015 gatgtatgtagttcctatactcatggtgagcatgctta 1052
 |||||
 Sbjct: 20095866 gatgtatttagttcctgtactcatggtgaccatgctta 20095903

Score = 52.0 bits (26), Expect = 4e-04
 Identities = 44/50 (88%)
 Strand = Plus / Plus

Query: 1313 ctccccctttggttgaacaatgcattacacctagtataggttgattttac 1362

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 161 gagttttttttatccaaataata 183
|||||
Sbjct: 3288689 gagttttttttatccaaataata 3288667

Score = 46.1 bits (23), Expect = 0.025
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 563 tttttattttatttgattattataata 589
|||||
Sbjct: 14037592 tttttattttatttgattattaaaata 14037618

Score = 46.1 bits (23), Expect = 0.025
Identities = 80/99 (80%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
860
|||||
Sbjct: 20095680 atgcgatacatggaacattgctttggctgacccggttcttggatatccaattcgcgcgt
20095739

Query: 861 atacgagaggagacatgacaaccttttagaatttcttttc 899
| |||
Sbjct: 20095740 gtgcgaaaggagacaagacgacccttagaatttttttttc 20095778

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 652 aactaaaatattttaaattacaaaata 677
|||||
Sbjct: 840724 aactaaaatattttaaattacaaaata 840749

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttta 409
 |||||
Sbjct: 1718721 ttttttttttgttttgtttta 1718742

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 691 aaacaatagaacaaaatattta 712
 |||||
Sbjct: 3288095 aaacaatagaacaaaatattta 3288074

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttta 409
 |||||
Sbjct: 6721124 ttttttttttgttttgtttta 6721103

Score = 44.1 bits (22), Expect = 0.098
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 263 tttcttaattacatTTTTTatacatTTtagaaat 296
 ||||| ||||| ||||| |||||
Sbjct: 8892173 tttcttaactacatTTTTTatatatttaaaaat 8892140

Score = 44.1 bits (22), Expect = 0.098
Identities = 34/38 (89%)
Strand = Plus / Plus

Query: 1015 gatgtatgtagttcctataactcatggtgagcatgctta 1052
 ||||| ||||| | ||||| ||||| |||||

Sbjct: 20066344 gatgtatttagttcttgtactcatggtgaccatgctta 20066381

Score = 44.1 bits (22), Expect = 0.098
Identities = 40/46 (86%)
Strand = Plus / Minus

Query: 389 ttttttttggttttgttttaaaattgtttgtatttttattttttt 434
||||||| | |||| ||| |||||| ||||| |||||||||
Sbjct: 31770599 ttttttggtttttatttaaaaattatttgttttttattttttt 31770554

Score = 44.1 bits (22), Expect = 0.098
Identities = 46/54 (85%)
Strand = Plus / Plus

Query: 1164 agttaattgtctcctagactaagaattgtatgtcgcattaatcgaaactcaagaa 1217
||||||| ||||| || ||||| ||| ||||| || || || |||||
Sbjct: 39183519 agttaattgtctcctggattaagaactgtgtgtcgtatcaaccaaactcaagaa
39183572

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 178 ataataaaaaaaaaaattaattatttta 202
|||||| | |||||| |||||
Sbjct: 3701664 ataatagaaaaaaaaaattaattatttta 3701688

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 388 ttttttttttggttttgttttaaaat 412
||||| |||||| |||||
Sbjct: 4878811 tttttattttgttttgttttaaaat 4878787

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgttttaa 409
 |||||
Sbjct: 6745793 tttttttttgttttgttttaa 6745813

Score = 42.1 bits (21), Expect = 0.39
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 400 tttgtttttaaattgtttgtatttttatttttt 432
 ||||| || |||||
Sbjct: 12865559 tttgtttttaaactattcgtatttttatttttt 12865591

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 518 catattttatgttttatcatttttt 542
 ||||| |||||
Sbjct: 15662189 catatttttgttttatcatttttt 15662165

Score = 42.1 bits (21), Expect = 0.39
Identities = 31/33 (93%), Gaps = 1/33 (3%)
Strand = Plus / Minus

Query: 165 tttttttatccaaataata-aaaaaaaaattaat 196
 ||||| |||||
Sbjct: 18899058 ttttttaatccaaataatacaaaaaaattaat 18899026

Score = 42.1 bits (21), Expect = 0.39
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 557 tttgtatttttattttatttgattattataataacata 593
 ||||| |||||
Sbjct: 20095439 tttgtatttttctttttatttgattattaaattacata 20095475

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 1442 atgcgagagtcacttttcttgtggaatc 1470
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 20096252 atgcaagagtcatttttcttgtggaatc 20096280

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 451 atttgtgttctgttttaaattgaaaa 475
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 28326043 atttgttttctgttttaaattgaaaa 28326019

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 387 ctttttttttgttttgtttt 407
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29174740 ctttttttttgttttgtttt 29174760

Score = 42.1 bits (21), Expect = 0.39
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 399 ttttgttttaaaattgtttgtatttttattttt 431
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 32973393 ttttgttttaattgttgtgtatttttattttt 32973361

Score = 42.1 bits (21), Expect = 0.39
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 1194 tgtcgcattaatcgaactcaagaacaatgtgag 1226
||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 33994771 tgtcgcattcgaactcaagaacaatgtgag 33994739

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 172 atccaaataataaaaaaaaaaat 192
 |||||
Sbjct: 37454659 atccaaataataaaaaaaaaaat 37454639

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1515 acatgacaaatattttttatt 1534
 |||||
Sbjct: 48449 acatgacaaatattttttatt 48468

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgttttaaaattgttt 417
 |||| |||||
Sbjct: 164905 ttttatttgttttgttttaaattgttt 164932

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 411 attgtttgtatttttatttttttt 434
 |||||
Sbjct: 3287911 attgtttgtattttaatttttttt 3287888

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 501 attcttaatttcttatgcat 520

|||||
Sbjct: 3510754 attcttaatttcttatgcat 3510735

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 183 aaaaaaaaaattaattattta 202
|||||
Sbjct: 3653266 aaaaaaaaaattaattattta 3653247

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 277 ttttttatacathtagaaat 296
|||||
Sbjct: 8890531 ttttttatacathtagaaat 8890550

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 410 aattgtttgtatttttattttttt 433
||||| |||||
Sbjct: 9076880 aattgtttttatttttattttttt 9076903

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 674 aatagatatgaaattacaaa 693
|||||
Sbjct: 11880127 aatagatatgaaattacaaa 11880108

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 561 tattttttattttatttgattatta 584
 |||||
Sbjct: 12532970 tattttttattttattttattatta 12532993

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 314 atttcaaaatgttcattttttttt 337
 |||||
Sbjct: 12771258 atttcaacatgttcattttttttt 12771281

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 184 aaaaaaaaattaattatttac 203
 |||||
Sbjct: 14286835 aaaaaaaaaattaattatttac 14286854

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 174 ccaaataataaaaaaaaaaatt 193
 |||||
Sbjct: 20708201 ccaaataataaaaaaaaaaatt 20708220

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 162 agttttttttatccaaataa 181
 |||||
Sbjct: 22441541 agttttttttatccaaataa 22441560

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 562 atttttattttatttgatta 581
 ||||||||||||||||
Sbjct: 25800570 atttttattttatttgatta 25800551

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgtttggttt 407
 ||||||||||||||||
Sbjct: 28265205 ttttttttttgtttggttt 28265186

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgtttggttt 407
 ||||||||||||||||
Sbjct: 33967399 ttttttttttgtttggttt 33967418

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaattaa 195
 ||||||||||||||||
Sbjct: 35845516 aaataataaaaaaaaaattaa 35845497

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 490 atatgttggttaattcttaat 509
 ||||||||||||||||
Sbjct: 38404389 atatgttggttaattcttaat 38404408

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 536 attttttaagagttgaaatccttt 559
||||| ||||||||||||||||
Sbjct: 38904963 atttttgaagagttgaaatccttt 38904940

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattta 634
||||||||||||||||||
Sbjct: 39072710 aattaaaaaatatatattta 39072729

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaatta 198
||||||||||||||||||
Sbjct: 39410835 taataaaaaaaaaattaatta 39410816

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 557 tttgtatTTTTtTTTTtTTtgattatta 584
|||| |||||||||||||||| |||||
Sbjct: 41184762 tttgcattTTTTtTTTTtTTtattatta 41184789

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttTgtttTgttt 407

|||||||
Sbjct: 235032 ttttttttgttttgtttt 235014

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 164 ttttttttatccaaataat 182
|||||||
Sbjct: 437117 ttttttttatccaaataat 437135

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 413 tgtttgtatttttattttt 431
|||||||
Sbjct: 1194994 tgtttgtatttttattttt 1195012

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 332 tttttttcaaaaccaagtt 350
|||||||
Sbjct: 3208254 tttttttcaaaaccaagtt 3208236

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 166 ttttttatccaaataataa 184
|||||||
Sbjct: 5642109 ttttttatccaaataataa 5642091

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaaatatatatttaa 635
 |||||
Sbjct: 5677706 ttaaaaaaatatatatttaa 5677688

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 410 aattgtttgtatttttatttttt 432
 |||||
Sbjct: 6151637 aattgttttatttttatttttt 6151615

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1523 aatatttttattataaaaacaaac 1545
 |||||
Sbjct: 8419222 aatatttttattataaaaaaac 8419200

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaattattta 202
 |||||
Sbjct: 8580783 aaataatataataaaaattaattattta 8580809

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 419 tatttttattttttttgttatta 441
 |||||
Sbjct: 8708789 tatttttattgtttttgttatta 8708811

Score = 38.2 bits (19), Expect = 6.1
Identities = 46/55 (83%)
Strand = Plus / Minus

Query: 1448 gagtccacttttcttgtggaatcttcctaagctaattaattggttagttcagcttg 1502
||||| ||||||| ||||||||||| || ||||||||||| ||| |||
Sbjct: 8890976 gagtcaacttttctcacggaatcttcctgagtcattaattgttaattcaacttg
8890922

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatttaact 637
||||||||||||||||| |||||
Sbjct: 8909960 aattaaaaaatatatataact 8909982

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
|||||||||||||||||
Sbjct: 9722597 aaattaaaaaatatatatt 9722579

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 182 taaaaaaaaattaattatt 200
|||||||||||||||||
Sbjct: 11891680 taaaaaaaaattaattatt 11891698

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 438 attaattgtctatatttgt 456
|||||||||||||||||
Sbjct: 12273797 attaattgtctatatttgt 12273779

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 275 atTTTTTTTatacatttagaaatt 297
 | | | | | | | | | | | | | | | | | |
Sbjct: 12649564 atTTTTTTTatacatttaaaaatt 12649542

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 383 attgctTTTTTTTTTgttt 401
 | | | | | | | | | | | | | | | | | |
Sbjct: 12748002 attgctTTTTTTTTTgttt 12747984

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 181 ataaaaaaaaaattaattat 199
 | | | | | | | | | | | | | | | | | |
Sbjct: 13204312 ataaaaaaaaattaattat 13204294

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 TTTTTTTTTgttttgttt 406
 | | | | | | | | | | | | | | | | | |
Sbjct: 13707099 TTTTTTTTTgttttgttt 13707117

Score = 38.2 bits (19), Expect = 6.1
Identities = 40/47 (85%)
Strand = Plus / Plus

Query: 1443 tgcgagagtcacttttcttgtggaatcttcctaagctaattaattg 1489
 ||||| ||||| | | ||||| || ||| |||||
Sbjct: 14288993 tgcgagagtcatttttctcgcgaaatcttgctgagccaattaattg 14289039

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1514 cacatgacaaatattttta 1532
 |||||
Sbjct: 14408388 cacatgacaaatattttta 14408406

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 385 tgcttttttttttgttttg 403
 |||||
Sbjct: 14473245 tgcttttttttttgttttg 14473263

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 381 taattgcttttttttttgt 399
 |||||
Sbjct: 14659538 taattgcttttttttttgt 14659556

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 14924743 ttaaaaaatatatatttaa 14924761

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

Query: 679 atatgaaattacaaacaat 697
 |||||
Sbjct: 15113664 atatgaaattacaaacaat 15113682

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
 |||||
Sbjct: 15761545 aaattaaaaaatatatatt 15761527

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 384 ttgcttttttttttgtttt 402
 |||||
Sbjct: 15869783 ttgcttttttttttgtttt 15869801

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaatta 198
 |||||
Sbjct: 16062685 aataaaaaaaaaattaatta 16062667

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 184 aaaaaaaattaattatttta 202
 |||||
Sbjct: 18431826 aaaaaaaattaattatttta 18431808

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 887 agaatttcttttcattttt 905
 |||||||
Sbjct: 18610656 agaatttcttttcattttt 18610674

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 420 atttttattttttttgta 438
 |||||||
Sbjct: 18862649 atttttattttttttgta 18862667

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 279 ttttatacathtagaaatt 297
 |||||||
Sbjct: 18956298 ttttatacathtagaaatt 18956280

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 659 atatttaaattacaaaata 677
 |||||||
Sbjct: 19136264 atatttaaattacaaaata 19136246

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatttttattttattt 576
 |||||||
Sbjct: 21600615 ttgtatttttattttattt 21600633

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 561 tattttttattttatttgattatt 583
 |||||
Sbjct: 23925684 tattttttattttatttattatt 23925662

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 417 tgtattttttatttttttttg 435
 |||||
Sbjct: 24289926 tgtattttttatttttttttg 24289908

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 161 gagttttttttatccaaataata 183
 |||||
Sbjct: 27967007 gagttttttttatcccaataata 27967029

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 563 tttttattttatttgattattat 585
 |||||
Sbjct: 32313624 tttttattttatttaattattat 32313646

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaaa 410
||||| ||||||||||||||||
Sbjct: 33872287 tttttgtttgttttgttttaaa 33872309

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1506 ttaaaacacacatgacaaa 1524
||||| ||||||||||||||||
Sbjct: 33991480 ttaaaacacacatgacaaa 33991462

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 409 aaattgtttgtatttttattttttttg 435
||||| |||||||||||||||| ||||
Sbjct: 33995452 aaatcgtttgatttttatttttatttg 33995426

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
||||| ||||||||||||||||
Sbjct: 34508056 aaatatattttattataaaa 34508038

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatattttatattttattt 576
||||| ||||||||||||||||
Sbjct: 35254527 ttgtatattttatattttattt 35254545

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Minus

```
Query: 1522      aaatatatttttattataaaa 1540
               |||||
Sbjct: 37653583 aaatatatttttattataaaa 37653565
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 1522      aaatatatttttattataaaa 1540
               |||||
Sbjct: 37858416 aaatatatttttattataaaa 37858434
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 414       gtttgtatttttatttttt 432
               |||||
Sbjct: 38095776 gtttgtatttttatttttt 38095794
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 1522      aaatatatttttattataaaa 1540
               |||||
Sbjct: 38142021 aaatatatttttattataaaa 38142003
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 424       ttattttttttgttattaa 442
               |||||
Sbjct: 40272602 ttattttttttgttattaa 40272584
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 578 attattataatacataatt 596
|||||
Sbjct: 41134680 attattataatacataatt 41134698

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 269 aattacatTTTTTTTataca 287
|||||
Sbjct: 41460055 aattacatTTTTTTTataca 41460073

>[gb|CM000849.1](#) Glycine max chromosome 16, whole genome shotgun sequence
Length = 37397385

Score = 341 bits (172), Expect = 3e-91
Identities = 320/365 (87%), Gaps = 7/365 (1%)
Strand = Plus / Minus

Query: 427 ttttttttgttattaattgtctatatttggttctgtttaaattgaaaacaatattattt
486
|||||
Sbjct: 5467386 ttttttggtggttattaattgtctatatttatgttttggtttaaactcaaaataatattattt
5467327

Query: 487 ttcatatggttggttaattccttaatttcttatgcatattttatggtttatcatttttt-aag
545
|
Sbjct: 5467326 tacatatggttggtg----ttaaattttt-tgcatattttatggtttattatattttgaag
5467272

Query: 546 agttgaaatcctttgtatTTTTTattttatttgattattataatacataattaacaacaa
605
|||||
Sbjct: 5467271 agttgaaatcatttgatTTTTCatttaattttattattaaaatacataattaatcaacaa
5467212

Query: 606 cttaattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattta
665
|||||

Sbjct: 5467211 cttaattaaaattaaaaaa-atatatatttgaccaacaagttgaattaaactaaaatattta
5467153

Query: 666 aattacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataat
725

||||| ||||||||| ||||||||| ||||||||| ||||||||| |||
Sbjct: 5467152 aattataaaaatagatatataaaattacaaacaatagaacacatatttaaatttgaaacaat
5467093

Query: 726 acaacaaaaattttaaaatacaaacaatatggcataaaaattaatgttgttggcctgagcc
785

| ||| ||||||||| ||||||||| ||| ||||||| ||| ||||||| |||||||
Sbjct: 5467092 ataacgaaaattttaaaatacaaacaacatgacataaaacttaccattgttggattgagcc
5467033

Query: 786 tacac 790
|||||
Sbjct: 5467032 tacac 5467028

Score = 268 bits (135), Expect = 4e-69
Identities = 264/303 (87%), Gaps = 8/303 (2%)
Strand = Plus / Minus

Query: 426 attttttttgttattaattgtctatatatttgtgttctgtttaaattgaaaacaatattatt
485

||||||| ||||||||| ||||||||| ||||| ||||||| ||||||| |||||||
Sbjct: 6694019 attttttatgttattaattgtctatatatttatgttttgtttaaactgaaaataatattatt
6693960

Query: 486 tttcatatgttgttaattcttaatttcttatgcatattttatgttttatcatttttt-aa
544

|| ||||||| ||| ||||| ||| ||||||||| ||||||||| ||||||| ||
Sbjct: 6693959 ttgtatatgtt----attgttaatattttttgcataattttatgttttatatttttttgaa
6693904

Query: 545 gagttgaaatcctttgtatttttattttattttgattattataatacataattaacaaca
604

||||||| ||||||| ||||||| ||||| ||| ||||||||| ||||||| |||||
Sbjct: 6693903 gagttgaaatccttttattttcattttatttaattcttaaaatacataattaatcaaca
6693844

Query: 605 acttaattgaaattaaaaaatatatatttaactgacaagttgacttg-aactaaaatatt
663

||||||| ||||||| | ||||||||| ||||| ||||| ||| ||| |||||||
Sbjct: 6693843 acttaattgaaactaaaaa--aaatatttaaccaacaatttgaattgaaaaaaaaaatatt
6693786

Query: 664 taaattacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaata
723
 |||||
Sbjct: 6693785 taaattacaaaatagatatataaaattacaaataatagaataaaaatattttaaattttaaaca
6693726

Query: 724 ata 726
 |||
Sbjct: 6693725 ata 6693723

Score = 222 bits (112), Expect = 2e-55
Identities = 200/228 (87%), Gaps = 1/228 (0%)
Strand = Plus / Plus

Query: 516 tgcataatatttatgtttt-atcattttttaagagttgaaatcctttgtatatttttattttat
574
 |||||
Sbjct: 6693299 tgcataatatttatgtttttatcatttttgaagaattaaaattttgtatatttttattttat
6693358

Query: 575 ttgattattataataacataattaacaacaacttaattgaaattaaaaaatatatattta
634
 |||||
Sbjct: 6693359 ttgattattaaaaacataattaatcaataacttaactgaaattaaaaaatcatattta
6693418

Query: 635 actgacaagttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaac
694
 || |||||
Sbjct: 6693419 accaacaagttgaattaaactaaaatattttaaatgaagaaatagaacaaaattacaaat
6693478

Query: 695 aatagaacaaaatattttaaatttgaaataataacaacaaaaatttttaa 742
 |||||
Sbjct: 6693479 aatagaataaaaatattttaaattttaaataataacaacaaaaatttttaa 6693526

Score = 182 bits (92), Expect = 2e-43
Identities = 137/152 (90%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaacaata
698
 |||||

Sbjct: 26167163 acaagttgaattgaactaaaatattttaaattaaaatatatatataaaattaccaacatta
26167104

Query: 699 gaacaaaatattttaaatttgaaataatacaacaaaaattttaaaatacaaacaatatggc
758

|||||
Sbjct: 26167103 gaacaaaatattttaaatttgaaacaatacaacaaaatttttaaaatacaaagaatatgac
26167044

Query: 759 ataaaaattaatgttggtggcctgagcctacac 790
|||||

Sbjct: 26167043 ataaatttaacggttggtggcctgagcctacac 26167012

Score = 149 bits (75), Expect = 2e-33
Identities = 223/270 (82%), Gaps = 3/270 (1%)
Strand = Plus / Plus

Query: 1549 cagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattac
1608

|||||
Sbjct: 32222157 cagtaatacaacaatgaa-aacacacatgacgactataaatcattaaataataaaatagc
32222215

Query: 1609 aatcaaataatttggggagggggtcttcaaaacttgattcaagggttcattgtatcatcga
1668

|||||
Sbjct: 32222216 aatcaaataaattaggacatttttcttcaaaactcaattcaagggttcattgtatcatcga
32222275

Query: 1669 ggtattcacccaaaccctccaaattcaaagagcttgacagaaactgggtgggtgtgtgcat
1728

|
Sbjct: 32222276 gatattcatccaaactctccaaattcaaagaccttgacataaatttgggtgggtgtgtgcat
32222335

Query: 1729 atgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaaga
1788

|||||
Sbjct: 32222336 atgtttgtgtgagtggtgtgttgcattggaatatataattcaaggca--tgaggttcgaga
32222393

Query: 1789 gtttcccaaataatagaaaacatagtaatta 1818
|||||

Sbjct: 32222394 gtttctcaaataatagaaaacatagtcatta 32222423

Score = 135 bits (68), Expect = 3e-29
Identities = 229/281 (81%), Gaps = 5/281 (1%)
Strand = Plus / Minus

Query: 1006 tatacacaagatgtatgtagttcctataactcatgggtgagcatgcttataaaca---acaa
1062
|||||
Sbjct: 26166774 tatacacaagatgtatgtagttcctgtacacatggtgagcatgcttacaagcatcaacaa
26166715

Query: 1063 catgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatcta
1122
|||||
Sbjct: 26166714 catgagaacaaggcatgtgcaatttttggaaatttactatagtcacaccacctttcatcta
26166655

Query: 1123 gcttgaccatgaaattttctcactagttgaatctctctctccagttaattgtctcctagac
1182
|||
Sbjct: 26166654 gcctgatcatgaaatttttagcgggctgaa--cctctctcgagattattgtctcctgaac
26166597

Query: 1183 taagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgccctttttctg
1242
|||||
Sbjct: 26166596 caagaatcatgtgtcgcacatcgatcgaactctagaacaatgtgagtggttgtctttctcta
26166537

Query: 1243 tatgtctttcatagccttggttaataacttttgataaaactt 1283
|
Sbjct: 26166536 tgcgtctttgatgaccttggttagtacttgtgtataaaactt 26166496

Score = 117 bits (59), Expect = 8e-24
Identities = 182/223 (81%)
Strand = Plus / Plus

Query: 1632 tcttcaaaacttgattcaaggttcattgtatcatcgaggtattcacccaaaccctccaaa
1691
|||||
Sbjct: 17680041 tcttcaaaactctattcaaggttcattgcttgagcgaggtattcatccaaacccttaaaa
17680100

Query: 1692 ttcaaagagcttgcagaaactgggtgggtggttgtgcatatgtttatgtgggtgtgtctacg
1751
|||

Score = 97.6 bits (49), Expect = 8e-18

```

Query:  763      aattaatgttgttggcctgagcctacaca  791
          |||||
Sbjct: 26926570 attcaatgttgttggcctgagcctacaca 26926598

```

```

Query: 864      cgagaggagacatgacaaccttagaat 891
           | ||||| ||||| |||||
Sbjct: 26166916 caagaggagacaaaacaacccttagaat 26166889

```

```

Query:  763      aattaatggttggtggcctgagcctaca  789
          |||||
Sbjct: 17676234 attcaatggttggtggcctgagcctaca 17676260

```

Score = 81.8 bits (41), Expect = 5e-13

Identities = 186/235 (79%), Gaps = 12/235 (5%)
Strand = Plus / Plus

Query: 1556 acaacaatgaacaacacacat--gacaactacaaatcattaaataatacaattacaatca
1613
 ||||||||||| |||||||| | | |||||||||||||||||||| | | |||||
Sbjct: 26930970 acaacaatgaaaaacacacatatgagtcctacaaatcattaaataataaaaatagcaatca
26931029

Query: 1614 aataattt-----gaggagggggtcttcaaaacttgattcaagggtcattgtatc
1663
 ||||||| ||| ||||||||||| | | ||||||||||| | | |
Sbjct: 26931030 aataatttttttttttttgggggggggggtcttcaatactcgattcaagggttattactta
26931089

Query: 1664 atcgaggtattcacccaaaccctccaaattcaaagagcttgcagaaactggtggtggttg
1723
 | | ||||||| |||||||| | |||| | | ||| ||||||| |||||||| | |
Sbjct: 26931090 agggaagtattcatccaaaccctaaaaattaaaaaagctagcagaaattggtggtggatg
26931149

Query: 1724 tgcatatgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtg 1778
 ||| |||||| | |||||| | ||| | ||| ||| ||| ||| | |||||
Sbjct: 26931150 tgcgcattgtttgtgtgggtgggtctgcagtggtaataatacaactccaagcatgtg
26931204

Score = 75.8 bits (38), Expect = 3e-11
Identities = 134/166 (80%)
Strand = Plus / Minus

Query: 954 ttgcacaatttcccaagtaatcatttgtacatgttatagatacttttcagcgatacac
1013
 ||||||||| ||| |||||| | ||| |||| | |||||||| | | |||||||
Sbjct: 11431320 ttgcacaattctccaaacaatcatctgtatatgttggagatactttccaacatatacacg
11431261

Query: 1014 agatgtatgtagttcctatactcatgggtgagcatgcttataaacaacaacatgagaaca
1073
 ||||||||||||| | |||||||| ||| | | | | | |||||||||||||||||
Sbjct: 11431260 agatgtatgtagtttatgtactcatgatgacctttcgtacaagcaacaacatgagaaca
11431201

Query: 1074 aacatgtgcattttttgaaatttgtcacagtcacactacctttcat 1119
 ||||| | | |||||| | ||||||||||| |||||||
Sbjct: 11431200 gggttgtgcaacttctgtaatttggccacagtcacacttcctttcat 11431155

Score = 69.9 bits (35), Expect = 2e-09
Identities = 143/179 (79%)
Strand = Plus / Plus

Query: 1184 aagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgt
1243
||||| ||| |||| ||| |||||||||||||||||| ||||| ||||||||| | ||
Sbjct: 17676764 aagaactgtgtgtcacatcaatcgaactcaagaacattgtgattgtttgcctttctaagt
17676823

Query: 1244 atgtctttcatagccttggtttaataacttttgtataaacttcaccaaataatcactctt
1303
|| || || ||||||||| ||||| ||||||||| || ||| || || || || ||
Sbjct: 17676824 gcgtgttcgatggccttggttagtacttccctataaacttggccagatgcaagcattgtt
17676883

Query: 1304 gcgacttctctccccctttgggtgaacaatgcattacacctagtatagggtgattttac
1362
|| ||||||||| || |||||||||||||||||||||| || || || |||||||||
Sbjct: 17676884 gcagcttctctccctcggttgggtgaacaatgcattacaccttgcataatgtggattttac
17676942

Score = 65.9 bits (33), Expect = 3e-08
Identities = 114/141 (80%)
Strand = Plus / Plus

Query: 1204 atcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttggt
1263
||||||| ||||||| ||||||| |||| ||||| | || ||||| || || |||||||
Sbjct: 26927034 atcgaacttaagaacattgtgagtggtttcctttctaagtgcgctcttcaatgggtcttggt
26927093

Query: 1264 taataacttttgtataaacttcaccaaataatcactcttgcgacttctctccccctttg
1323
|| ||||||| ||||||||| || |||| || || || ||||| ||||||||| || ||
Sbjct: 26927094 tagtactttcgtataaactttgtcagatgcaagcattgttgcaacttctctccctccttt
26927153

Query: 1324 gttgaacaatgcattacacct 1344
||||||||||||||||||
Sbjct: 26927154 gttgaacaatgcattacacct 26927174

Score = 58.0 bits (29), Expect = 7e-06

Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 557 tttgtatTTTTtattttatttgattattataatacata 593
 ||||| |||||||||||||||||||| |||||
Sbjct: 26167231 tttgtatgtttattttatttgattattaaaatacata 26167195

Score = 52.0 bits (26), Expect = 4e-04
Identities = 44/50 (88%)
Strand = Plus / Plus

Query: 1060 caacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacac 1109
 |||||||||||||| |||| || |||| ||||| |||||||||
Sbjct: 17676676 caacatgagaacaaagcatgttcaaattttggaatttgccacagtcacac 17676725

Score = 50.1 bits (25), Expect = 0.002
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 684 aaattacaaacaatagaacaaaatattttaaatt 716
 |||||||||||||| |||| |||||||||||||
Sbjct: 3098156 aaattacaaacaatataacataaatattttaaatt 3098188

Score = 50.1 bits (25), Expect = 0.002
Identities = 55/65 (84%)
Strand = Plus / Plus

Query: 725 tacaacaaaaattttaaaatacaaacaaatatggcataaaaattaatgttggtggcctgagc
784
 ||||||||| ||| ||| ||||||||||||||||| | | | | ||||| |||||
Sbjct: 17676312 tacaacaaaaattttacaaacacaaacaatatggcatacattcaacgatgttggttgagc
17676371

Query: 785 ctaca 789
 |||||
Sbjct: 17676372 ctaca 17676376

Score = 48.1 bits (24), Expect = 0.006
Identities = 45/52 (86%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttgggttacctgattcttggatatccattt 852
|||| ||| |||||||||||||||||| ||| ||||| | |||||||||
Sbjct: 5466996 atgcaacatatggaacatcattttgggtgacccaattctcgaatatccattt 5466945

Score = 48.1 bits (24), Expect = 0.006
Identities = 45/52 (86%)
Strand = Plus / Minus

Query: 1420 ccccatcgccagccaccatcccatgcgagagtccacttttcttgtggaatct 1471
||||||| | |||||| ||||||||||||||| | ||||||| |||||||
Sbjct: 26166348 ccccatcgctcgccaccgtcccatgcgagagtttatttttcttgcggaatct 26166297

Score = 48.1 bits (24), Expect = 0.006
Identities = 90/111 (81%), Gaps = 2/111 (1%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttgggttacctgattcttggatatccattttggtgtgt 860
||||||||| | |||||| ||||||| | | |||| | ||||||||||||||| ||
Sbjct: 26926630 atgcgacacacgaaacatcgcttgggtgatccggttctcgaatatccattttggtatgg 26926689

Query: 861 atacgagaggagacat--gacaaccttagaatttcttttcatttttgggt 909
||||||| ||||| || ||||| | |||| | ||||||| |||||||||
Sbjct: 26926690 atacgagtggagagataggacaatccttagtacttcttttcttttttgggt 26926740

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
||||||| | |||||||||||||||||||
Sbjct: 17676157 acaagttcaattgaactaaaatatttaaatt 17676187

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtccacttttct 1461
||||| |||||||||||||||| |||||
Sbjct: 26927280 gccaccttcccatgcgagagtccatttttct 26927310

Score = 44.1 bits (22), Expect = 0.098
Identities = 34/38 (89%)
Strand = Plus / Minus

Query: 328 attttttttttcaaaaccaagttaagaaatcggttcct 365
||||||||| ||| ||| ||| |||||||||||
Sbjct: 11431944 attttttttttacaacaccatgttatgaaatcggttcct 11431907

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 314 atttcaaaatgttcattttttt 335
|||||||||||||||||
Sbjct: 27434173 atttcaaaatgttcattttttt 27434152

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 415 tttgtatttttattttttttgttattaatt 444
||||||||| ||||||||||| |||||
Sbjct: 34286633 tttgtatttttattttttttgtttttaatt 34286604

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 170 ttatccaaataataaaaaaaaaatta 194
|||| |||||||||||||||
Sbjct: 4378902 ttatacaaataataaaaaaaaaatta 4378926

Score = 42.1 bits (21), Expect = 0.39
Identities = 36/41 (87%)

Strand = Plus / Plus

```
Query: 1431      gccaccatcccatgcgagagtcacttttcttgtggaatct 1471
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 17677032 gccaccatctcatgcgagagtctatttttctcgcggaatct 17677072
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 66/81 (81%)
Strand = Plus / Plus

```
Query: 1057      caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
1116
                ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 26926889 caacaacatgagaacaaggcatgtgtaacttctggaattttccacagtgacaccacattt
26926948
```

```
Query: 1117      catctagcttgaccatgaaat 1137
                ||||| ||||| ||||| |||||
Sbjct: 26926949 catctagcctaaccgtgaaat 26926969
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 407       taaaattgtttgtatttttattttt 431
                ||||| ||||| ||||| |||||
Sbjct: 29504464 taaaattgtttatatatttttattttt 29504488
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 421       tttttattttttttgttatta 441
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 30584084 tttttattttttttgttatta 30584064
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattta 634
|||||||
Sbjct: 32043292 aaattaaaaaatatatattta 32043272

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattta 634
|||||||
Sbjct: 32080812 aaattaaaaaatatatattta 32080792

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 389 ttttttttgttttgttttaa 409
|||||||
Sbjct: 35222050 ttttttttgttttgttttaa 35222030

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 420 atttttatttttttgttat 439
|||||||
Sbjct: 1184703 atttttatttttttgttat 1184722

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 118 atcgaaaaagaaaaagaaa 137
|||||||
Sbjct: 2446900 atcgaaaaagaaaaagaaa 2446919

Score = 40.1 bits (20), Expect = 1.5

Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 320 aaatgttcattttttttttcaaaa 343
|||||
Sbjct: 3825338 aaatgttcatttttttttttaaaa 3825315

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 421 tttttatttttttttgttatt 440
|||||
Sbjct: 7895935 tttttatttttttttgttatt 7895954

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 564 ttttattttatttgattattataa 587
|||||
Sbjct: 8052649 ttttattttatttgattattataa 8052626

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttta 408
|||||
Sbjct: 10320623 tttttttttgttttgtttta 10320604

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 tttttttttgttttgtttt 407
|||||
Sbjct: 12528125 tttttttttgttttgtttt 12528106

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 616 attaaaaaatatatatttaa 635
|||||||
Sbjct: 15324429 attaaaaaatatatatttaa 15324448

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 415 tttgtatTTTTtattTTTTt 434
|||||||
Sbjct: 18629189 tttgtatTTTTtattTTTTt 18629208

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatattta 634
|||||||
Sbjct: 28079947 aattaaaaaatatatattta 28079928

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 557 tttgtatTTTTtatttTattt 576
|||||||
Sbjct: 28476396 tttgtatTTTTtatttTattt 28476377

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgTTTTgtttt 407
|||||||

Sbjct: 28808911 ttttttttttgttttgtttt 28808930

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 415 tttgtatttttatttttttt 434
|||||||
Sbjct: 29533699 tttgtatttttatttttttt 29533718

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 715 tttgaaataataacaacaaaa 734
|||||||
Sbjct: 31315647 tttgaaataataacaacaaaa 31315666

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattttaact 637
|||||||
Sbjct: 31396168 aaattaaaaaatatttattttaact 31396191

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 278 tttttatacathtagaaatt 297
|||||||
Sbjct: 33434408 tttttatacathtagaaatt 33434427

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 563 tttttattttatttgattattata 586
 |||||
Sbjct: 35758457 tttttattttattttattattata 35758480

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 557 tttgtatttttattttattt 576
 |||||
Sbjct: 37381012 tttgtatttttattttattt 37381031

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 732961 ttaaaaaatatatatttaa 732943

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaatta 198
 |||||
Sbjct: 2244797 aaataataaaaaaattaatta 2244819

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatattt 633
 |||||
Sbjct: 2625651 aattaaaaaatatatattt 2625633

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatattt 633
 |||||
Sbjct: 2625733 aattaaaaaatatatattt 2625715

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 178 ataataaaaaaaaaattaattatt 200
 |||||
Sbjct: 3168704 ataataaaaaaaaaattatttatt 3168726

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 736 ttttaaaatacaacaata 754
 |||||
Sbjct: 4114864 ttttaaaatacaacaata 4114882

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 4316235 aaatatattttattataaaa 4316253

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 4460317 aaatatattttattataaaa 4460299

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 4813325 aaatatattttattataaaa 4813343

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 4824638 aaatatattttattataaaa 4824620

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 612 tgaaattaaaaaatatata 630
 |||||
Sbjct: 5375070 tgaaattaaaaaatatata 5375052

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 421 tttttatttttttgttattaat 443
 |||||
Sbjct: 5551800 tttttatttttttgtttttaat 5551778

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
 |||||

Sbjct: 5580866 aaattaaaaaatatatatt 5580884

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatattttttattataaaa 1540
|||||
Sbjct: 6633386 aaatattttttattataaaa 6633368

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 690 caaacaatagaacaaaatattta 712
|||||
Sbjct: 6693529 caaacaataaaacaaaatattta 6693551

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1513 acacatgacaaatattttt 1531
|||||
Sbjct: 7612335 acacatgacaaatattttt 7612317

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
|||||
Sbjct: 7908090 ttttttttttgttttgttt 7908108

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1078 tgtgcattttttgaaattt 1096
 |||||
Sbjct: 8883713 tgtgcattttttgaaattt 8883695

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 184 aaaaaaaattaattattta 202
 |||||
Sbjct: 9639661 aaaaaaaattaattattta 9639679

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatatttaact 637
 |||||
Sbjct: 11057444 aattaaaaaatatatatctaact 11057422

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
 |||||
Sbjct: 11230536 gtttgtatttttatttttt 11230518

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 267 ttaattacatttttttata 285
 |||||
Sbjct: 14076735 ttaattacatttttttata 14076753

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 553 atcctttgtatttttattt 571
 |||||
Sbjct: 14590494 atcctttgtatttttattt 14590512

Score = 38.2 bits (19), Expect = 6.1
Identities = 31/35 (88%)
Strand = Plus / Plus

Query: 841 ggatatccattttggtgtgtatacgagaggagaca 875
 ||||| ||||| ||| || |||||
Sbjct: 17676450 ggatatccatttcggtgtggatacaagtggagaca 17676484

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttt 406
 |||||
Sbjct: 18845991 ttttttttttgttttgttt 18845973

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttttgttttgttt 407
 |||||
Sbjct: 21225071 ttttttttttgttttgttt 21225089

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 521 attttatgttttatcattt 539
 |||||
Sbjct: 22034107 attttatgttttatcattt 22034125

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttttgttttgtttt 407
 |||||
Sbjct: 23467475 ttttttttttgttttgtttt 23467457

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 23490158 aaatatattttattataaaa 23490140

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtattttttattttatatt 576
 |||||
Sbjct: 24076460 ttgtattttttattttatatt 24076478

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 417 tgtattttttatttttttttg 435
 |||||
Sbjct: 25080272 tgtattttttatttttttttg 25080290

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaatta 198
 |||| |||||

Sbjct: 25247349 aaatgataaaaaaaaaattaatta 25247371

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 329 tttttttttttcaaaaccaa 347
|||||||
Sbjct: 25503975 tttttttttttcaaaaccaa 25503957

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 385 tgcttttttttttgttttgtttt 407
||||||| |||||||
Sbjct: 25686481 tgctttttgttttgttttgtttt 25686503

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 655 taaaatattttaaattacaaaata 677
||||||| |||||
Sbjct: 26452454 taaaatattttaaattaaaaaata 26452432

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1860 caatcaccaacaaatgata 1878
|||||||
Sbjct: 26931279 caatcaccaacaaatgata 26931297

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 422 ttttatttttttttggttatt 440
 |||||
Sbjct: 27772932 ttttatttttttttggttatt 27772914

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaatta 198
 |||| |
Sbjct: 28096712 aaattataaaaaaaaaattaatta 28096734

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 178 ataataaaaaaaaaattaat 196
 |||||
Sbjct: 28721707 ataataaaaaaaaaattaat 28721689

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 422 ttttatttttttttggtattaatt 444
 |||||
Sbjct: 28799880 ttttatttttttttggtttaatt 28799902

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatattt 633
 |||||
Sbjct: 28952723 aattaaaaaatatatatattt 28952741

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 183 aaaaaaaaaattaattat 201
 |||||
Sbjct: 29963759 aaaaaaaaaattaattat 29963741

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgttt 407
 |||||
Sbjct: 30957578 tttttttttgttttgttt 30957596

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 130 aaaagaaatgcatgtatat 148
 |||||
Sbjct: 30968187 aaaagaaatgcatgtatat 30968169

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 398 gttttgttttaaaattgtt 416
 |||||
Sbjct: 31484294 gttttgttttaaaattgtt 31484312

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 31599664 ttaaaaaatatatatttaa 31599646

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 612 tgaaattaaaaaatatata 630
 |||||||
Sbjct: 31618365 tgaaattaaaaaatatata 31618383

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 522 ttttatgttttatcatttttta 544
 |||| |
Sbjct: 31958444 ttttaggttttatcatttttta 31958422

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
 |||||||
Sbjct: 32068113 aaattaaaaaatatatatt 32068095

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttt 406
 |||||||
Sbjct: 32496315 ttttttttttgtttgttt 32496297

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
 |||||||

Sbjct: 32867092 gtttgtatTTTTtatttttt 32867074

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 655 taaaatattttaaattacaaaata 677
|||||
Sbjct: 34281396 taaaatattttaaattaaaaata 34281418

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 616 attaaaaaatatatattta 634
|||||
Sbjct: 34663569 attaaaaaatatatattta 34663551

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 655 taaaatattttaaattacaaaata 677
|||||
Sbjct: 34787781 taaaatattttaaattaaaaata 34787759

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 655 taaaatattttaaattacaaaata 677
|||||
Sbjct: 34843390 taaaatattttaaattaaaaata 34843368

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 415 tttgtatTTTTtattttttttgtt 437
 |||||
Sbjct: 34963317 tttgtatTTTcatTTTTTTgtt 34963339

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 655 taaaatatttaaattacaaaata 677
 |||||
Sbjct: 35016795 taaaatatttaaattaaaaata 35016773

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 393 tttttgttttgTTTTaaa 411
 |||||
Sbjct: 35635253 tttttgttttgTTTTaaa 35635235

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaatta 198
 |||||
Sbjct: 36157826 aaataataaaaaaaaaatttaatta 36157848

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 178 ataataaaaaaaaaattaat 196
 |||||
Sbjct: 36813833 ataataaaaaaaaaattaat 36813851

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaaatta 194
|||||
Sbjct: 36863692 aaataataaaaaaaaaaatta 36863674

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 321 aatgttcatttttttttttc 339
|||||
Sbjct: 37116391 aatgttcatttttttttttc 37116409

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 412 ttgtttgtatttttatttt 430
|||||
Sbjct: 37381009 ttgtttgtatttttatttt 37381027

>[gb|CM000836.1](#) Glycine max chromosome 3, whole genome shotgun sequence
Length = 47781076

Score = 323 bits (163), Expect = 7e-86
Identities = 326/378 (86%), Gaps = 3/378 (0%)
Strand = Plus / Plus

Query: 1504 ccttaaaacacacatgacaaatattttttattataaaacaaacacccagtgatacaacaat
1563
||||| |
Sbjct: 28421864 ccttaaaacacacatgatgactattttttattatgaaacaaacactcagtaatacaaaaat
28421923

Query: 1564 gaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttg-
1622
||||| |
Sbjct: 28421924 gaacaacacacatgacgactacgaatcattaaataataaaaatagcaattgaataatttgt
28421983

Query: 636 ctgacaagttgacttgaactaaaatatTTTaaattacaaaatagatatgaaattacaaaca
695

Sbjct: 28411264 ccaacaagttgaattgaactaaaatattttaaattacaaaatagatatataagttataaaca
28411323

Query: 696 atagaacaaaatattttaaatgtgaaataatacaacaaaaattttaaaatacaaacat
755

|| |||||
Sbjct: 28411324 attgaacaaaatattttaaatgtgaaacaataaaaataaaaattttaaaatacaaacatgt
28411383

Query: 756 ggcataaaattaatgttgttggcctgagcctaca 789
| ||||| ||| ||||| ||| |||||

Sbjct: 28411384 gacataaacttaacgttgttggcttaagcctaca 28411417

Score = 266 bits (134), Expect = 1e-68
Identities = 366/440 (83%), Gaps = 5/440 (1%)
Strand = Plus / Plus

Query: 972 aatcatttgtacatgttatagatacttttcagcgtatacacagaatgtatgtagttccta
1031

|||||
Sbjct: 28411627 aatcatttgtacatgttggagatactttccaatgtatacacatgatatttgaattctca
28411686

Query: 1032 tactcatggtgagcatgcttataa---acaacaacatgagaacaaaacatgtgcattttt
1088

|||||
Sbjct: 28411687 tactcatggtgaacatgcttacaagcaacaacaacatgagaacaaggcatgttcactttt
28411746

Query: 1089 tgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaatttctcactagt
1148

|| ||||| || ||||| || ||||| || ||||| || ||||| || |||||
Sbjct: 28411747 tggaatttggcatagtcacaccatttttcatccagcctaaccgtgaaatttccaac-agg
28411805

Query: 1149 tgaatctctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcga
1208

|| | ||||| |||||
Sbjct: 28411806 ccaaac-ctctctcgggttaattgtctcctggactaagaactgtgtgtcacatcgattga
28411864

Query: 1209 actcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttggttaata
1268

|||||
Sbjct: 28411865 actcaagaacaatgtgagagtttttctttctccatgcacatcttccatagccttggttagta
28411924

Query: 1269 cttttgtataaacttcaccaaagtgaatcactcttgcgacttctctccccctttggttga
1328
|| |||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 28411925 ctagtgtagaacttgaccaaagtgaatcattggtgcaactactcttctctttggttga
28411984

Query: 1329 acaatgcattacacctagtaggttgattttaccaacacacattgccagattttgtggtt
1388
||||| ||||| || ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 28411985 acaatgtattacatctgtacaggttgattttaccaacacacattggcagattttgtggtt
28412044

Query: 1389 ttcttgagtaccaaattaat 1408
||| ||||| ||||| |||||
Sbjct: 28412045 ttcttgagtaccaaattaat 28412064

Score = 254 bits (128), Expect = 5e-65
Identities = 216/242 (89%), Gaps = 5/242 (2%)
Strand = Plus / Minus

Query: 551 aaatcctttgtatTTTTATTTTATTTGATTATTATAATACATAATTAACAACAACCTAA
610
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2313804 aaatcctttgtatTTTTATTTTATTTGATTATTAATAACATAATTAACAACATAA
2313745

Query: 611 ttgaaattaa--aaaatatatTTTAACTGACAAGTTGACTTGAACATAAATATTTAAAT
668
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2313744 ttgaaattaaacaaaaagtatTTTAACTGACAAGTTGACTTGAACATAAATATTTAAAT
2313685

Query: 669 tacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataataca
728
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2313684 tacaaaatagatatataaaattacaaatgat--aaaaaaatatttaaatttgaaacaataca
2313627

Query: 729 ac-aaaaattttaaaatacaaacaatatggcataaaattaatgttggtggcctgagccta
787
|| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2313626 acaaaaaaattttaaaatacaaacaatatgacataaaacttaatgttattggcctgagccta
2313567

Query: 788 ca 789
||

Sbjct: 2313566 ca 2313565

Score = 242 bits (122), Expect = 2e-61
 Identities = 288/342 (84%), Gaps = 1/342 (0%)
 Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
 860

Sbjct: 105754 atgcgacacatggaacattgttttgggtgacctgattctcagatattcttttagtgtat
 105695

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
 920

Sbjct: 105694 atacaaaaggagacaagatgacccttagaatttcttttcttcttgggccagggcagatt
 105635

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcattt-
 979

Sbjct: 105634 cttgactcttgacatagtgaccaatacgcttcgctatgaaatttctcaaacaatcctttt
 105575

Query: 980 gtacatggttatagatacttttcagcgatatacacaagatgtatgtagttcctatactcatg
 1039

Sbjct: 105574 gtatatggttgagacactttccaacgtatacacatgatgtatgtagttcctatactcatg
 105515

Query: 1040 gtgagcatgcttataaacaacaacatgagaacaaaacatgtgcattttttgaaatttgtc
 1099

Sbjct: 105514 gtgagcatgcttacaagcaacaacatgagaacaaaatgtgcactttttggaatttggc
 105455

Query: 1100 acagtcacactacctttcatctagcttgaccatgaaatttct 1141

Sbjct: 105454 acaatcacaccacttttcatctagcttgaccatgaaatttct 105413

Score = 206 bits (104), Expect = 1e-50
 Identities = 271/326 (83%), Gaps = 3/326 (0%)
 Strand = Plus / Plus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
1613

||||| |||||| | | || |||| | | ||||||||| |||| | ||| |||||||
Sbjct: 27598674 atacaaaaatgaaaaatacaaatgacgacaacaaatcattaaatataaaaaataacaatca
27598733

Query: 1614 aataatttggggaggggggtcttcaaaacttgattcaagggttcattgtatcatcgaggtat
1673

|| | | |||| | | ||||||||| | | ||||||| |||||| | | |||||||
Sbjct: 27598734 aagaaatagggg---ggttcttcaaaattttattcaagattcattgctttattgaggtat
27598790

Query: 1674 tcacccaaaccctccaaattcaaagagcttgacagaaactgggtgggtgtgcatatggt
1733

|| | ||||||||| ||||||||| |||| | ||||||| |||||| | ||||
Sbjct: 27598791 gcatctaaaccctccaaattcaaagagcttgtagaaattgggtgggtgtgcatatggt
27598850

Query: 1734 tatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtttc
1793

| | ||||||||| |||| | | | ||||||||| |||| | |||||||
Sbjct: 27598851 tgtttgggtgtgtctgtgggtggaatagataaactcaaggcatgtgagattggagagtttc
27598910

Query: 1794 ccaaatatagaaaacatagtaattatttcctcatcatcttgacagcatacatgccctgtac
1853

|| || | ||||||||| |||| | ||||||||| |||| | || |||||||||
Sbjct: 27598911 ccgaaaattgaaaacatagtcattatgtcctcatcatcatgcaatatgcatgccctgtac
27598970

Query: 1854 tgaaaacaatcaccaacaaatgatac 1879

|| | ||||||||| |||||||
Sbjct: 27598971 tggccataatcaccaacaaatgatac 27598996

Score = 176 bits (89), Expect = 1e-41
Identities = 340/417 (81%), Gaps = 10/417 (2%)
Strand = Plus / Plus

Query: 1005 gtatacacaagatgtatgtagttcctataactcatgggtgagcatgcttataa---acaaca
1061

|||| ||||||||| |||||| | ||| | ||||||| |||| | |||||
Sbjct: 18370786 gtatgcacaagatgtatgtagtttcagtacacagagtgagcattcttacaagcaacaaca
18370845

Query: 1062 acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
1121

||||||| ||||||||| |||||| | ||||||||| ||| || ||||||| |||||

Query: 1055 aa---caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
1111

Sbjct: 18379466 aatagcaataacatgagaacaaggcatgtgtactttttggaatttgtcatagttacatca
18379525

Query: 1112 cctttcatctagcttgaccatgaaatttctcactagttgaatctctctctccagtttaatt
1171

||||||| ||| ||| ||||||||| || || ||| ||||||| ||| |||
Sbjct: 18379526 cctttcatccagcctgacaatgaaatttc-cagcaggctaaac-ctctctcaggttgatt
18379583

Query: 1172 gtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagttt
1231

||||| | ||||||||| | ||||||||| ||| ||||||||||||| ||| | |
Sbjct: 18379584 gtctcttgactaagaatcatgtgtcgcacatgacaaactcaagaacaatctgagcatat
18379643

Query: 1232 gcctttttctgtatgtctttcatagccttggttaataacttttgtataaaacttcaccaa
1291

||||| ||||| ||||| ||| ||||||||||||||||| ||||||||| | | |||
Sbjct: 18379644 gcctttctctgtgcgtcttccatggccttggttaataacttgcgataaaacttggctagat
18379703

Query: 1292 gtaatcactcttgcgacttctctcccccttgggtgaacaatgcattacacctagtatag
1351

|||| | | |||| |||| |||||| |||| |||||| ||||||||| |||||
Sbjct: 18379704 gtaagcattgttgcaacttttctccctctttagttgaaaaatgcattacaccttatatat
18379763

Query: 1352 gttgattttac 1362
|||||||

Sbjct: 18379764 gttgattttac 18379774

Score = 176 bits (89), Expect = 1e-41
Identities = 281/342 (82%), Gaps = 6/342 (1%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttggtgtgt
860

||||||||||||||||| |||||||| | | ||||| ||||||||| | |||||
Sbjct: 32201850 atgcgacacatggaacatcgttttgggttgacttagttcttagatatccatttcgatgtgg
32201791

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcgaatt
920

|||| ||||||||| ||| ||| ||||||||| ||||| | | ||| ||||||| |||
Sbjct: 32201790 ataccagaggagaca-gacgacccttagaatttattttcttctcaaggctcggggcagatt
32201732

Query: 921 cttggcttgtagacatgggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980
|| |||||
Sbjct: 32201731 atttgcttgtagacatgggtggccaatatgcttcggtgcacaattctccaacaattctctg
32201672

Query: 981 tacatggttatagatacttttccagcgtatacacaagatgtatgtagttcctataactcatgg
1040
|| | ||| ||| | ||| || |||||
Sbjct: 32201671 tatacgttgtagacattttccaatgtatacaaaagatgcatgtagttcctgtactcatgg
32201612

Query: 1041 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
1097
||||||| ||| | |||||
Sbjct: 32201611 tgagcatgtttacaagcaacaacaacatgagaacaagaca--tgcaattttttagaatttg
32201554

Query: 1098 tcacagtcacactacctttcatctagcttgaccatgaaattt 1139
|||||||
Sbjct: 32201553 ccacagtcacaccacctttcatctagcctgactgtgaaattt 32201512

Score = 174 bits (88), Expect = 4e-41
Identities = 163/187 (87%), Gaps = 2/187 (1%)
Strand = Plus / Plus

Query: 608 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa
667
||||||| ||||| |||| | |||| | |||||
Sbjct: 36546412 taattgaaataaaaaaacatat--ttaaccaacaagttgaattgaactaaaatattttaa
36546469

Query: 668 ttacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataatac
727
||| |||||
Sbjct: 36546470 ttaaaaaatagatatataaaactacaaacaatagaataaaaatattttaaatttgaaacaatac
36546529

Query: 728 aacaaaaatttttaaaatacaacaatatggcataaaattaatgttggtggcctgagccta
787
|||| | ||||| ||||| ||||| ||| |||||
Sbjct: 36546530 aacacaactttttagaatacaaatgatatgacataaacttagcgttggtggcctgagccta
36546589

Query: 788 cacaatg 794
|| ||||

Sbjct: 36546590 caaaatg 36546596

Score = 168 bits (85), Expect = 2e-39
Identities = 197/231 (85%), Gaps = 5/231 (2%)
Strand = Plus / Minus

Query: 1187 aattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcccttttctgtatg
1246

Sbjct: 105389 aattgtgtgccgcattgatgaaactcaagaacaatgtgagagtttgcccttctatgtgcg
105330

Query: 1247 tctttcatagccttggtttaatacttttgtataaacttcaccaaataatcactccttgcg
1306

Sbjct: 105329 acttccataaccttatttagtactttcgtataa-cttggccaaatgtaatcattgttgca
105271

Query: 1307 acttctctcccccttgggtgaacaatgcattacacctagtaggttgattttaccaac
1366

Sbjct: 105270 acttctttccctcttgggtgaacaatgcattacacct--tatatgttgattttatcatc
105213

Query: 1367 acac--attgccagattttgtgttttcttgagtaccaaattaattaactca 1415

Sbjct: 105212 acacttattgacaaattttgtgttttcttgagtaccaaattaatcaactca 105162

Score = 151 bits (76), Expect = 6e-34
Identities = 134/152 (88%), Gaps = 1/152 (0%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
698

Sbjct: 24674093 acaagttgaattgaactaaaatatttaaattacaaaatattttt-aaactaccaacaata
24674151

Query: 699 gaacaaaatatttaaatttgaaataatacaacaaaaatttttaaatacaaaacaatatggc
758

Sbjct: 24674152 gacacaaaatatttaaatttgaaacaatacaacaaaaatttttaaatacaaaagaatatgac
24674211

Query: 1541 caaacacccagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataat
1600

Score = 137 bits (69), Expect = 9e-30
Identities = 141/161 (87%), Gaps = 3/161 (1%)
Strand = Plus / Plus

Query: 619 aaaaaatatatatttaactgacaagttgacttgaactaaaatatttaaattacaaaatag
678
 ||||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18370382 aaaaaaacatatttaaccaacaagttgaattgaactaaa-tatttaaattacaaa-tag
18370439

Query: 679 atatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaa-caaaaatt
737
 ||| ||||| ||||| | | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18370440 atataaaattacaaatagtggaaacaaaatatttaaatttcaaacaatacaataaaaaaat
18370499

Query: 738 ttaaaatacaaaacaatatggcataaaaattaatgttggtggc 778
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18370500 ttaaaatacaaaagaatatgacataaacttaacgttggtggc 18370540

Score = 131 bits (66), Expect = 5e-28
Identities = 115/130 (88%), Gaps = 1/130 (0%)
Strand = Plus / Minus

Query: 649 ttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaatagaacaaaata
708
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 105928 ttgaattaaaatatttaaattacaaaatagatatagattacaaacaataaaacaacata
105869

Query: 709 tttaaatttgaaataatacaacaa-aaattttaaaatacaaaacaatatggcataaaaatta
767
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 105868 tttaaatttgaaatcgtacaacaatattttttaaagtacaaagaatataacataaaactta
105809

Query: 768 atgttggttg 777
 ||||| |||||
Sbjct: 105808 atgttggttg 105799

Score = 129 bits (65), Expect = 2e-27
Identities = 141/164 (85%), Gaps = 3/164 (1%)
Strand = Plus / Plus

```
Query: 568      atttttatttgattattataataacataattaaacaacaacttaattgaaattaaaaaatat
627            |||
Sbjct: 9739081 attttatttaattattttaaatataataatcaacaacttaattaaaataaaaaaacat
9739140
```

```

Query: 628      at--atttaactgacaagttgacttgaactaaaatattttaattacaaaatagatatgaa
685            ||  ||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Sbjct: 9739141 atttatataatcaacaagatgaattcaactaaaatattttaaat-acaaaataaatataaa
9739199

```

```

Query: 686      attacaaacaatagaacaaaatattttaatttgaaataatacaa 729
               ||||| ||| ||||||||||||||||||| ||||| |||||
Sbjct: 9739200 attataaataatagaacaaaatattttaaaattgaaacaatacaa 9739243

```

Score = 123 bits (62), Expect = 1e-25
Identities = 104/118 (88%)
Strand = Plus / Plus

```
Query: 672      aaaatagatatgaaattacaaacaatagaacaaaatattttaatttgaaataataacaaca
731            |||
Sbjct: 24406976 aaaatagatatataaaattataaacaatagaataaaaatattttaatttcaaacactacaaca
24407035
```

```
Query: 732      aaaattttaaaatacaacaatatggcataaaaattaatgttggttggcctgagcctaca
789            ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 24407036 aaatttttaacttacaaacaatacaacataaaacttaatgttggttggcctgagcctaca
24407093
```

Score = 115 bits (58), Expect = 3e-23
Identities = 173/209 (82%), Gaps = 3/209 (1%)
Strand = Plus / Plus

```
Query: 1156      ctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
1215            |||
Sbjct: 21343335 ctctctcgggtaattgtctcctagactac-aatcgtgtatcacattgattgaactcaag
21343393
```

Query: 1216 aacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgt
1275

Sbjct: 21343394 || ||||| ||| |||| | ||| ||||| ||||| ||||| ||| ||| |
 21343451 aataatgtgagttttt--ctttctttgtgCGTcttttgtagccttggttagtggttctat

Query: 1276 ataaacttcaccaaataatcactcttgCGacttctctcccccttggttgaacaatgc
 1335

Sbjct: 21343452 ||||| ||||| ||||| ||||| ||| ||| ||||| ||||| ||||| ||||| |||
 21343511 ataaacttggccaaataatcattgttgggacttctctccctcttggttgaacaaggT

Query: 1336 attacacctagtatataggttgattttacca 1364
 |||| |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 21343512 attataccttgatataggttgattttacca 21343540

Score = 111 bits (56), Expect = 5e-22
 Identities = 120/140 (85%), Gaps = 1/140 (0%)
 Strand = Plus / Minus

Query: 991 agatacttttcagCGtatacacaagatgtatgtagttcctatactcatggtgagcatgct
 1050

Sbjct: 2313341 ||||| ||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 2313282 agatagtttccaacgtatacacaggatgtatgtagttcctatactcatggtgagcacgct

Query: 1051 t-ataaacaacaacatgagaacaaaacatgtgcattttttgaaatttgTcacagtcacac
 1109

Sbjct: 2313281 | | ||||| |||| |||| | |||| | |||| | |||| | ||| |||||
 2313222 taagcaacaacaatatgaaaacaaggcatgtgtagtttttggaatttgTtacaatcacac

Query: 1110 tacctttcatctagcttgac 1129
 ||||| |||| ||| ||||
 Sbjct: 2313221 cacctttcatccagcctgac 2313202

Score = 111 bits (56), Expect = 5e-22
 Identities = 77/84 (91%)
 Strand = Plus / Plus

Query: 1796 aaatatagaaaacatagtaattatttcctcatcatcttgCagcatacatgcctgtactg
 1855

Sbjct: 18384018 ||||| ||||| |||| | ||||| ||||| ||||| ||||| ||| ||||| ||||| |||||
 18384077 aaatatagaaaacacaataattatgtcctcatcatcttgCagtattcatgcctgtactg

```
Query: 1787      gagtttcccaaatatagaaaacatagtaattattttcctcatcatcttgagcatacatgc  
1846            ||| | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 14892968 gagttgcctaaatatggaaaacatagtattattatgtcctcatcatcttgagtatgcatgc  
14892909
```

Query: 1847 cctgtactgaaaacaatcaccaacaaatgatacgggaca 1885
| ||||| || || ||||| ||||| |||||
Sbjct: 14892908 cttgtactaaagactatcaccaacaaatgatatgggaca 14892870

Score = 101 bits (51), Expect = 5e-19
Identities = 298/376 (79%), Gaps = 7/376 (1%)
Strand = Plus / Plus

Query: 880 aacctttagaatttcttttcatttttgggttggggcaaattcttggcttgtagacatggtg
939
||| ||||| ||| | ||||| ||||| ||||| ||||| ||
Sbjct: 27583973 aacccttagaatttatTTTTTgtttgggttggggcaaattcattggcttgtagacacagtt
27584032

Query: 940 accaacatgcttcattgcacaatttcccaagtaatcatttgtacatgttatagatacttt
999
||| | ||||| ||||| ||| ||| | ||| | || |||||
Sbjct: 27584033 gccaatatacttcattacacaattcttcaaacaatcctctgtataccttggagacacttt
27584092

Query: 1000 tcagcgtatacacaagatgtatgtagttcctatactcatggtgagcatgcttataaaca
1059
|| | ||||| ||||| ||||| ||||| ||||| ||||| || |||
Sbjct: 27584093 ccaacatatacacaagatttatgtagttcctgtactcatggtaagcatgcttacaagcaa
27584152

Query: 1060 c---aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
1116
| ||||| ||||| ||||| || ||||| |||| | || | |||||
Sbjct: 27584153 caataacataagaacaaggcatgtacaatttttgggattttccatattcagaacaccttt
27584212

Query: 1117 catctagcttgaccatgaaatttctcactag-ttgaatctctctctccagttaattgtct
1175
||| ||||| ||||| ||||| || ||||| |||| | ||| |||||
Sbjct: 27584213 catccagcttgattgtgaaatttc-caccaggttgaacctttctt--cggtttattgtct
27584269

Query: 1176 cctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcct
1235
||| ||| ||||| ||||| || ||| ||||| ||||| ||||| |||||
Sbjct: 27584270 cctggaccaagaattgtgtgtcgtatcgatcaaacttaagaacaatgtgagtggttgcct
27584329

Query: 1236 ttttctgtatgtcttt 1251
|| ||||| |||||

Sbjct: 27584330 ttctctgtgtgtcttt 27584345

Score = 93.7 bits (47), Expect = 1e-16
 Identities = 77/87 (88%)
 Strand = Plus / Plus

Query: 703 aaaatattttaaatgtgaaataatacaacaaaaattttaaaatacaaacatattggcataa
 762

 |||||
 Sbjct: 27583780 aaaatattttaaatgtgaaacaataaaacaaaattttaaaatacaagaatatgacaaaa
 27583839

Query: 763 aattaatgttggttgccctgagcctaca 789

 | |||| ||||| || |||||
 Sbjct: 27583840 acttaacgttggttagcttgagcctaca 27583866

Score = 93.7 bits (47), Expect = 1e-16
 Identities = 128/155 (82%)
 Strand = Plus / Minus

Query: 1208 aactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttgttta
 1267

 |||||
 Sbjct: 32201444 aactcaagaacaatgtgagtggttgcctttctctatgtgtcttcgatgaccttgtttagt
 32201385

Query: 1268 acttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttgggttg
 1327

 |||| ||||| || || ||||| || || ||||| || || |||||
 Sbjct: 32201384 acttgcgatataaaacttggtcagatgtaagcattggtgcgactttctctctctttggttg
 32201325

Query: 1328 aacaatgcattacacctagtaggttgattttac 1362

 |||||
 Sbjct: 32201324 aacaatgcattagaccttatatgtgttgattttac 32201290

Score = 89.7 bits (45), Expect = 2e-15
 Identities = 72/80 (90%), Gaps = 2/80 (2%)
 Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatattttaattacaaaatagatatgaaattacaaacaata
 698

Query: 733 aaatttttaaatacaaaacaatatggcataaaattaatgttgttggcctgagc 784

Sbjct: 2313531 atgcgatacattaaacattatatttggttgatccaattcttagatattcatgttgatgtgc
2313472

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttggggtggggcaaatt
920

||||||| ||| | | ||||| ||||| ||||| ||||| | | |||||
Sbjct: 2313471 atacgagagaagatagggcaacctttataatttttttcatcttggctcggaacaaatt
2313412

Query: 921 cttggcttgatgacatggtga 940

||||||| | |||||
Sbjct: 2313411 cttggctcgacatggtga 2313392

Score = 69.9 bits (35), Expect = 2e-09
Identities = 47/51 (92%)
Strand = Plus / Minus

Query: 679 atatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaa 729

|||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 32201925 atataaaattaccaacaatagaataaaaatatttaaatttgaaacaatacaa 32201875

Score = 65.9 bits (33), Expect = 3e-08
Identities = 42/45 (93%)
Strand = Plus / Minus

Query: 1417 tgtcccatcgccagccaccatcccatgagagagtcacttttct 1461

||||||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 105143 tgtcccatcgctcgccaccatcccatgagagagtcacttttct 105099

Score = 63.9 bits (32), Expect = 1e-07
Identities = 62/72 (86%)
Strand = Plus / Minus

Query: 1431 gccaccatcccatgagagagtcacttttcttggaatcttcctaagctaattaattgt
1490

||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2312913 gccaccatcccatgcaagagttcacttttcacgtggaatctcactgagccaattaattgc
2312854

Query: 1491 tagttcagcttg 1502

||||||| |||
Sbjct: 2312853 tagttcaacttg 2312842

Score = 63.9 bits (32), Expect = 1e-07
 Identities = 44/48 (91%)
 Strand = Plus / Minus

Query: 161 gagttttttttatccaaataataaaaaaaaaaattaattatttaccctaaa 208
 |||||
 Sbjct: 18374419 gagttttttttaccctaattaataataaattaattatttaccctaaa 18374372

Score = 63.9 bits (32), Expect = 1e-07
 Identities = 60/68 (88%), Gaps = 1/68 (1%)
 Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtccactttt-cttgtggaatcttcctaagctaattaattg
 1489
 |||||
 Sbjct: 28412104 gccaccatcccatgcaagagtccatttttctcgcgaaatcttcctaagccaattaattg
 28412163

Query: 1490 ttagttca 1497
 |||||
 Sbjct: 28412164 cttagttca 28412171

Score = 63.9 bits (32), Expect = 1e-07
 Identities = 38/40 (95%)
 Strand = Plus / Minus

Query: 554 tcctttgtatttttattttatttgattattataataacata 593
 |||||
 Sbjct: 32202066 tcctttgtattttcattttatttgattattataataacata 32202027

Score = 63.9 bits (32), Expect = 1e-07
 Identities = 38/40 (95%)
 Strand = Plus / Plus

Query: 557 tttgtatttttattttatttgattattataataacataatt 596
 |||||
 Sbjct: 36546377 tttgtatttttattttatttgattattataataacataatt 36546416

Score = 58.0 bits (29), Expect = 7e-06
 Identities = 77/93 (82%)

Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
860
|||||
Sbjct: 18370584 atgcgacacattgaatatcatttttagttgatccggttttcagatattcattttggtgtgt
18370643

Query: 861 atacgagaggagacatgacaacctttagaattt 893
|||
Sbjct: 18370644 atatgagaggagacaggatgacccttagaattt 18370676

Score = 58.0 bits (29), Expect = 7e-06
Identities = 112/139 (80%), Gaps = 3/139 (2%)
Strand = Plus / Plus

Query: 1005 gtatacacaagatgtatgtagttcctataactcatggtagcatgcttataaacaacaa--
1062
|||||
Sbjct: 21343183 gtatacacaagatgtacgtaggccctataactcatggtagcctctttacaagcagcaacg
21343242

Query: 1063 -catgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
1121
||||
Sbjct: 21343243 gcatgagcaaggcatgtgcaacttttggaaatttgtcatagtcacacaacctttgatct
21343302

Query: 1122 agcttgaccatgaaatttc 1140
|
Sbjct: 21343303 atcttaactgtgaaatttc 21343321

Score = 58.0 bits (29), Expect = 7e-06
Identities = 47/53 (88%)
Strand = Plus / Minus

Query: 1436 catcccatgcgagagtcacttttcttgtggaatcttcctaagctaattaatt 1488
|||||
Sbjct: 32201197 catcccatgcgagagtcacttttcttgcgaaatctcgctgagccaattaatt
32201145

Score = 56.0 bits (28), Expect = 3e-05

Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 673 aaatagatatgaaattacaaacaatagaacaaaatattttaaatt 716
||||| ||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 14893577 aaataggtataaagttacaaacaatagaacaaaacattttaaatt 14893534

Score = 56.0 bits (28), Expect = 3e-05
Identities = 31/32 (96%)
Strand = Plus / Plus

Query: 544 agagttgaaatcctttgtatTTTTattttatt 575
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18370328 agagttgaaatcctttgtatTTTtcattttatt 18370359

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 554 tcctttgtatTTTTattttatttgattattataataacata 593
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27583592 tcctttatattttcattttatttgattattaaaatacata 27583631

Score = 54.0 bits (27), Expect = 1e-04
Identities = 36/39 (92%)
Strand = Plus / Plus

Query: 537 ttttttaagagttgaaatcctttgtatTTTTattttatt 575
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 21342468 ttttttaagagtagaaatcctttgtatTTTccattttatt 21342506

Score = 54.0 bits (27), Expect = 1e-04
Identities = 48/55 (87%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattattataataacataaattaaacaacaacttaattgaa 615
||||| ||| |||| ||| || ||||| ||||| ||||| ||||| |||||
Sbjct: 21342752 tatttttaatttcttttggttaataaaaatacataacttaaccaacaacttaattgaa
21342806

Score = 52.0 bits (26), Expect = 4e-04
Identities = 29/30 (96%)
Strand = Plus / Plus

Query: 1432 ccaccatcccatgcgagagtcacttttct 1461
||||||| ||||||||||||||||||
Sbjct: 18371232 ccaccatcacatgcgagagtcacttttct 18371261

Score = 52.0 bits (26), Expect = 4e-04
Identities = 38/42 (90%)
Strand = Plus / Minus

Query: 641 aagttgacttgaactaaaatatttaaattacaaaatagatat 682
||||||| ||||||||| ||||||||||||||||| || ||||
Sbjct: 32201993 aagttgaattgaactaatatatatttaaattacaatatatatat 32201952

Score = 50.1 bits (25), Expect = 0.002
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaaaat 412
||||||||| |||||||||||||||||
Sbjct: 9581086 ttttttttttgttttgttttaaaat 9581062

Score = 48.1 bits (24), Expect = 0.006
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtcacttt 1458
||||||||| |||||||||||||||||
Sbjct: 21343626 gccaccatcctatgcgagagtcacttt 21343653

Score = 48.1 bits (24), Expect = 0.006
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaaaa 411

|||||
Sbjct: 27538843 ttttttttttgttttgttttaaaa 27538866

Score = 48.1 bits (24), Expect = 0.006
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 1430 agccaccatcccatgcgagagtccacttttct 1461
|||||
Sbjct: 34562298 agccaccatcccatgcgagagtctatttttct 34562267

Score = 46.1 bits (23), Expect = 0.025
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 174 ccaaataataaaaaaaaaaattaattatttacccaaa 208
|||||
Sbjct: 8620241 ccaaataatataaataaattaattatttatccaaa 8620207

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1385 tgtttttcttgagtaccaaattaattaactca 1415
|||||
Sbjct: 18379799 tgtttttcttggtaccaaattaattgactca 18379829

Score = 46.1 bits (23), Expect = 0.025
Identities = 38/43 (88%)
Strand = Plus / Minus

Query: 166 ttttttatccaaataataaaaaaaaaaattaattatttacccaaa 208
|||||
Sbjct: 26778515 ttttttacccaaataatataaattaattaattatttatccaaa 26778473

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgttttaaaa 411
 |||||
Sbjct: 41938296 tttttttttgttttgttttaaaa 41938318

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
 |||||
Sbjct: 830840 aaattaaaaaatatatatttaa 830861

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 610 attgaaattaaaaaatatatatttaa 635
 ||||| |||||
Sbjct: 8672212 attgaaaataaaaaaatatatatttaa 8672187

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgttttaaa 410
 |||||
Sbjct: 9760230 tttttttttgttttgttttaaa 9760251

Score = 44.1 bits (22), Expect = 0.098
Identities = 46/54 (85%)
Strand = Plus / Plus

Query: 684 aaattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaaaatt 737
 ||||| ||||| |||| ||||| ||||| ||||| |||||
Sbjct: 13920752 aaattataaacaatgtaacataatatttaaattacaaataatataacataaatt
13920805

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 1432 ccaccatcccatgcgagagtccacttttct 1461
|||||
Sbjct: 18379864 ccaccatcccatgcttgagtccacttttct 18379893

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgttttaa 410
|||||
Sbjct: 20843605 tttttttttgttttgttttaa 20843626

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 263 tttcttaattacatttttttat 284
|||||
Sbjct: 35593471 tttcttaattacatttttttat 35593492

Score = 44.1 bits (22), Expect = 0.098
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 402 tgtttttaaattgtttgtatttttatttttttg 435
|||||
Sbjct: 36546364 tgtttttaaattttttgtatttttattttatttg 36546397

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 695 aatagaacaaaatatttaaatttgaa 720
|||||
Sbjct: 41301095 aatagaacaaaaatttaaatttgaa 41301120

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 160 agagttttttttatccaaataataaaaaaa 189
|||||
Sbjct: 44239009 agagttttttttatcaaaattataaaaaaa 44238980

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 46514712 aaattaaaaaatatatatttaa 46514691

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 387 cttttttttttgttttgtttt 407
|||||
Sbjct: 3323042 cttttttttttgttttgtttt 3323022

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 421 tttttattttttttgttatta 441
|||||
Sbjct: 6067096 tttttattttttttgttatta 6067076

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 731 aaaaatttttaaaatacaaacaatat 755
||||||| |||||||||
Sbjct: 18201006 aaaaatttttaaaatacaaacaatat 18201030

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1859 acaatcaccaacaaatgatac 1879
||||||| |||||||||
Sbjct: 21964540 acaatcaccaacaaatgatac 21964520

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 275 atttttttatacatttagaaa 295
||||||| |||||||||
Sbjct: 37875689 atttttttatacatttagaaa 37875709

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 575 ttgattattataatacataattaaa 599
||||||| |||||||||
Sbjct: 38752201 ttgattattataataataattaaa 38752177

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttta 408
||||||| |||||||||
Sbjct: 38819766 ttttttttttgttttgtttta 38819746

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)

Strand = Plus / Plus

Query: 122 aaaaagaaaaaagaaatgcat 142
 |||||
Sbjct: 45813227 aaaaagaaaaaagaaatgcat 45813247

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 184 aaaaaaaattaattatttac 203
 |||||
Sbjct: 2175145 aaaaaaaattaattatttac 2175126

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 162 agttttttttatccaaataa 181
 |||||
Sbjct: 4068046 agttttttttatccaaataa 4068065

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatatt 633
 |||||
Sbjct: 6078542 aaattaaaaaatatatatatt 6078561

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 328 attttttttttcaaaaccaa 347
 |||||
Sbjct: 20041467 attttttttttcaaaaccaa 20041448

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 1632 tcttcaaaaacttgattcaagggttcattg 1659
||||||| |||||
Sbjct: 21964757 tcttcaaaaactcaattcaagggttcattg 21964730

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
|||||||
Sbjct: 24216979 ttttttttttgttttgtttt 24216998

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 610 attgaaattaaaaaatatatattt 633
||||| |||||
Sbjct: 27136503 attgaagttaaaaaaatatatattt 27136526

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 325 ttcattttttttttcaaaac 344
|||||||
Sbjct: 28506868 ttcattttttttttcaaaac 28506849

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 384 ttgcttttttttttgttttgtttt 407
||||||| |||||
Sbjct: 35749249 ttgcttttttttttttttttgtttt 35749226

Score = 40.1 bits (20), Expect = 1.5
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 685 aattacaaacaatagaacaaaatattttaaatt 716
 |||||
Sbjct: 38438336 aattacaaacaatataacataatgttttaaatt 38438367

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatattt 633
 |||||
Sbjct: 44403277 aaattaaaaaatatatatattt 44403258

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 325 ttcatttttttttttcaaaac 344
 |||||
Sbjct: 45240199 ttcatttttttttttcaaaac 45240218

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 346 aagttaagaaatcggttcc 364
 |||||
Sbjct: 2307048 aagttaagaaatcggttcc 2307030

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 411 attgtttgtatTTTTTTTTTTTTTTTggt 437
|||||
Sbjct: 2313601 attgtttgtatTTTaaTTTTTTTggt 2313627

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 724 atacaacaaaaatttttaa 742
|||||
Sbjct: 4135854 atacaacaaaaatttttaa 4135836

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaaaattaa 195
|||||
Sbjct: 4295660 aataataaaaaaaaaattaa 4295642

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaatt 197
|||||
Sbjct: 4329665 taataaaaaaaaaattaatt 4329647

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 616 attaaaaaatatatattta 634
|||||
Sbjct: 4462065 attaaaaaatatatattta 4462047

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

```
Query: 416      ttgtatTTTTtatttttttt 434
           |||||||
Sbjct: 4612310 ttgtatTTTTtatttttttt 4612328
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 121      gaaaaagaaaaaagaaatg 139
           |||||||
Sbjct: 5121475 gaaaaagaaaaaagaaatg 5121457
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 415      tttgtatTTTTtatttttttt 433
           |||||||
Sbjct: 5583566 tttgtatTTTTtatttttttt 5583548
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

```
Query: 166      ttttttatccaaataataaaaaaaaaat 192
           ||||| || |||||||
Sbjct: 6396899 ttttttatcctaaaaataaaaaaaaaat 6396873
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 119      tcgaaaaagaaaaaagaaa 137
           |||||||
Sbjct: 7224586 tcgaaaaagaaaaaagaaa 7224568
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttt 432
|||||
Sbjct: 7753132 gtttgtatttttatttttt 7753150

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 119 tcgaaaaagaaaaagaaa 137
|||||
Sbjct: 7754808 tcgaaaaagaaaaagaaa 7754826

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattatt 583
|||||
Sbjct: 8033481 tatttttattttatttaattatt 8033503

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 425 tattttttttgttattaat 443
|||||
Sbjct: 8705474 tattttttttgttattaat 8705456

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
|||||
Sbjct: 8754099 aaattaaaaaatatatatt 8754081

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 563 tttttattttatttgattattat 585
 |||||
Sbjct: 9770184 tttttattttattttattattat 9770206

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 181 ataaaaaaaaattaattat 199
 |||||
Sbjct: 10162854 ataaaaaaaaattaattat 10162872

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 412 ttgtttgtatttttatttttttt 434
 |||||
Sbjct: 11025375 ttgttttatttttatttttttt 11025353

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1524 atatttttattataaaaca 1542
 |||||
Sbjct: 11890893 atatttttattataaaaca 11890911

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 419 tattttttatttttttttggtt 437
 |||||
Sbjct: 11954233 tattttttatttttttttggtt 11954251

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 415 tttgtattttttattttttt 433
 |||||
Sbjct: 13666763 tttgtattttttattttttt 13666745

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
 |||||
Sbjct: 17760464 aaattaaaaaatatatatt 17760446

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 563 ttttttattttatttgattattat 585
 |||||
Sbjct: 22036931 tttttattttattttattattat 22036909

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 131 aaagaaatgcatgtatatg 149
 |||||
Sbjct: 23683685 aaagaaatgcatgtatatg 23683667

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)

Strand = Plus / Minus

Query: 382 aattgcttttttttttgttttgt 404
 |||||
Sbjct: 27210044 aattgcttttttttttttttgt 27210022

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 411 attgtttgtatttttattttttttgtt 437
 |||||
Sbjct: 28196565 attgtttttatttttgttttttttgtt 28196539

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 28247839 ttttttttgttttgtttt 28247857

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaac 636
 |||||
Sbjct: 29056600 aaattaaaaattatatatttaac 29056578

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 561 tatttttattttatttgattatt 583
 |||||
Sbjct: 29742513 tatttttattttattttattatt 29742491

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 169 tttatccaaataataaaaaaaaaa 191
 ||||| |||||||||||||||
Sbjct: 31613474 tttatctaaataataaaaaaaaaa 31613452

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||||||||||||
Sbjct: 31626116 aaatatattttattataaaa 31626134

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||||||||||||
Sbjct: 31679750 aaatatattttattataaaa 31679768

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||||||||||||
Sbjct: 32658135 aaatatattttattataaaa 32658153

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaac 636
 ||||||||| |||||||||||
Sbjct: 33731958 aaattaaaaattatatatttaac 33731980

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 163 gtttttttttatccaaataa 181
|||||||
Sbjct: 33814952 gtttttttttatccaaataa 33814934

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 578 attattataatacataatt 596
|||||||
Sbjct: 34272266 attattataatacataatt 34272284

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
|||||||
Sbjct: 34454435 gtttgtatttttatttttt 34454417

Score = 38.2 bits (19), Expect = 6.1
Identities = 85/107 (79%)
Strand = Plus / Minus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224
||||||| | ||| ||||| || ||||| || |||||
Sbjct: 34562582 gttaattgtctcttggaaccaagaatcgtgcatcgcattgaactcaagaatattgtg
34562523

Query: 1225 agagtttgccctttttctgtatgtctttcatagccttgtttaataactt 1271
|| ||||| || | || ||||| || |||||
Sbjct: 34562522 agtgtttgccattctaagtgtgtctttgatgaccttgtttagtactt 34562476

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34563084 acaaattgaattgaagtaaaaatatttaaatt 34563054

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1861 aatcaccaacaaatgatac 1879
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 35057777 aatcaccaacaaatgatac 35057795

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 423 tttattttttttggtatta 441
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 35157703 tttattttttttggtatta 35157685

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 558 ttgtattttttattttattt 576
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36535707 ttgtattttttattttattt 36535689

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 177 aataataaaaaaaaaattaattatttac 203
 ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 37261148 aataataatataaaaattaattatttac 37261174

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 184 aaaaaaaattaattattta 202
|||||||
Sbjct: 37293908 aaaaaaaattaattattta 37293890

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatatttaa 635
|||||||
Sbjct: 37512745 gaaattaaaaaatatataattaa 37512723

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattt 633
|||||||
Sbjct: 37526496 aattaaaaaatatatattt 37526514

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 604 aacttaattgaaattaaaa 622
|||||||
Sbjct: 38373394 aacttaattgaaattaaaa 38373412

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 412 ttgtttgtatttttatttttttt 434
 ||||| |||||
Sbjct: 38782764 ttgtttgaatttttatttttttt 38782786

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
 ||||| |||||
Sbjct: 39266695 ttttttttttgttttgttt 39266713

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaa 410
 ||||| |||||
Sbjct: 40071381 ttttttttttgtttttttttaa 40071403

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaatta 198
 ||||| |||||
Sbjct: 40474185 aataaaaaaaaaattaatta 40474167

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
 ||||| |||||
Sbjct: 40476593 ttttttttttgttttgttt 40476611

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 41071258 aaatatattttattataaaa 41071240

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 392 ttttttgttttgttttaaa 410
 |||||
Sbjct: 41890700 ttttttgttttgttttaaa 41890718

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 319 aaaatgttcattttttttt 337
 |||||
Sbjct: 42273553 aaaatgttcattttttttt 42273535

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 42666346 aaatatattttattataaaa 42666328

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatttttattttattt 576
 |||||
Sbjct: 43207117 ttgtatttttattttattt 43207135

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 647 acttgaactaaaatattta 665
 |||||
Sbjct: 43499827 acttgaactaaaatattta 43499845

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 412 ttgtttgtatttttatttttttt 434
 ||||| |||||
Sbjct: 44500127 ttgttttatttttatttttttt 44500105

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 520 tattttatgttttatcatttttt 542
 ||||| |||||
Sbjct: 44641384 tattttatattttatcatttttt 44641362

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttt 432
 |||||
Sbjct: 45858864 gtttgtatttttatttttt 45858882

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
 |||||

Sbjct: 45906385 gtttgtatTTTTATTTTTT 45906367

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 416 ttgtatTTTTATTTTTTgtta 438
 ||||| |||||
Sbjct: 46670783 ttgtatTTTTATTTTTTgtta 46670761

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttt 406
 ||||| |||||
Sbjct: 47005787 ttttttttttgttttgttt 47005769

>[gb|CM000843.1](#)| Glycine max chromosome 10, whole genome shotgun sequence
Length = 50969635

Score = 283 bits (143), Expect = 6e-74
Identities = 318/371 (85%), Gaps = 9/371 (2%)
Strand = Plus / Minus

Query: 423 tttatTTTTTTgttattaattgtctatatTTTgtgttctgtttaaattgaaaacaatatt
482
 ||||| | ||||| ||||| ||||| || || ||||| || |||||
Sbjct: 4747802 tttatTTTctgtgttattaattgtctatatTTTtatTTTgttttaa--aaatattatt
4747745

Query: 483 atTTTtcatatgTTgtttaattcttaat-ttcttatgcatatTTTatgTTTTatcattttt
541
 ||||| ||||| ||||| ||||| || || ||||| ||||| ||||| |||||
Sbjct: 4747744 atTTTgcatatgTTgttg----ttaatatTTTtTgcatatTTTatggTTTTatcattttt
4747689

Query: 542 taagagttgaaa-tcctttgtatTTTT-atTTtatTTgattattataatacataaatTaaa
599
 ||||| ||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4747688 gaagagTtaaaaatatTTTgtatTTTtcatTTtatTTgattattaaaatacataaatcaat
4747629

Query: 600 caacaacttaattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaa
659

|||||
Sbjct: 4747628 caacaacttaattgaaatttttaaaaaaatattttaatcaacaagttgaattgaactaaaa
4747569

Query: 660 tattttaaattacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatgtga
719

|||||
Sbjct: 4747568 tattttaaattacaaaataaatagaaaattataaacaatataacaaaatattttaaatcga
4747509

Query: 720 aataatacaacaaaaatttttaaaatacaaaacaatatggcataaaaattaatggttggtggcc
779

|||||
Sbjct: 4747508 aataatacgacaaaatttttttaaaatacaaaacaatatgacataaaacttaacattattggtt
4747449

Query: 780 tgagcctacac 790

|||||
Sbjct: 4747448 tgagcctacac 4747438

Score = 244 bits (123), Expect = 5e-62
Identities = 219/250 (87%), Gaps = 2/250 (0%)
Strand = Plus / Minus

Query: 1542 aaacacccagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataata
1601

|||||
Sbjct: 18372763 aaacactcagtaatacaacaacgaacaacacgcatgacaactacaaatcattaaataata
18372704

Query: 1602 caattacaatcaaataatttggggagggggtcttcaaaacttgattcaagggttcattgta
1661

|||
Sbjct: 18372703 aaatatcaataaaaataaattaggg--gggggtcttcaaaactcgattcaagggttcattgct
18372646

Query: 1662 tcatcgagggtattcacccaaaccctccaaattcaaagagcttgagaaaactgggtgggtggt
1721

||||
Sbjct: 18372645 tcattgagggtattcatccaaaccctccaaattgaaaaagcttgagaaaatagtggtgat
18372586

Query: 1722 tgtgcatatgtttatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaag
1781

|||||

```
Query: 1852      actgaaaacaatcaccaacaaatgatac 1879
          ||||  ||||||| |||||||||
Sbjct: 39520245 actgccacaatcaacaacaaatgatac 39520272
```


Score = 210 bits (106), Expect = 7e-52
 Identities = 261/312 (83%), Gaps = 3/312 (0%)
 Strand = Plus / Minus

Query: 812 ggaacatcattttggtttacctgattccttggatatccattttggtgtgtatacgagagga
 871
 ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 18688015 ggaacatcactttggttgacccgattctctgatatccattttggtgtggatacgagagga
 18687956

Query: 872 gacatgacaacctttagaatttcttttcatttttgggttggggcaaattccttggcttgtg
 931
 |||| || || ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 18687955 gacaagatgacgcttagaatttcttttccttgtttgggtcgggataaatcattggctcgtg
 18687896

Query: 932 acatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtacatgttata
 991
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 18687895 acatgatgaccaaagtcttcgttgcgcaattctgcaaataatcctttgtatacgttgga
 18687836

Query: 992 gatacttttcagcgtatacacagaatgtatgtatgttagttcctataactcatggtgagcatgctt
 1051
 ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 18687835 atcactttctaacgtatacacagaatgtatgtatgttagttcctataactcatggtgagccttgctt
 18687776

Query: 1052 ata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcaca
 1108
 | | | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 18687775 acaagcagcaacaacatgagaacaatgcatgtgcaatttctgaaatttggcatagtcaca
 18687716

Query: 1109 ctacctttcatc 1120
 | ||||| |||||
 Sbjct: 18687715 ccacctttcatc 18687704

Score = 200 bits (101), Expect = 7e-49
 Identities = 271/327 (82%), Gaps = 3/327 (0%)
 Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattccttggatatccattttggtgtgt
 860
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 4747346 ataggagaggggacacgacaacctttaaatttcttttcatctttgggtcatgacaaatt
4747287

Sbjct: 4747286 cttgacttgtgacacaatgatcaatacgcttctttgcgcaattcgtcaaataatcctctt
4747227

Sbjct: 4747226 tacatggttgatacactttccaatgtatacacatgatgtttgtagttcctataactcatgg
4747167

|||| | ||||| || | ||||| ||||| ||||| | | | | ||||| |||||
Sbjct: 4747166 tgaacgtgcttataagtagcaacaacatgaaaacaagatatatacactttttgaaatttg
4747107

```
Query: 1098      tcacagtcacactacctttcatctagc 1124
                ||||| ||| ||||| ||||| ||||| |||||
Sbjct: 4747106  tcactatcatactacctttcatttaac 4747080
```

Score = 196 bits (99), Expect = 1e-47
Identities = 165/185 (89%), Gaps = 4/185 (2%)
Strand = Plus / Minus

Sbjct: 6820148 taattgaaattaaaaatatatatatttaaccatcaagttgaattggactaaaatattt
6820089

Sbjct: 6820088 aaattacaaaatatatataaaattacaaacgatagaacaaaatatttaaatttgaatcaa
6820029

Query: 725 tacaacaaaaatttttaaatacaaacatattggcataaaattaatgttggttggcctgagc
784

Sbjct: 6820028 ta-aacaaaaattttaaaatacaaagaatatgacataaaatttaatgttggtggcttaagc
6819970

Query: 785 ctaca 789

Sbjct: 6819969 ctaca 6819965

Score = 196 bits (99), Expect = 1e-47
Identities = 273/329 (82%), Gaps = 4/329 (1%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860

Sbjct: 41395975 atgcgacacatagaatatcttttggctaataccaattcttggatatccattttggtatgt
41396034

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920

Sbjct: 41396035 atacgagaggagacaggacgacctttagaatttcttttcattcttcgggtcggggcagatt
41396094

Query: 921 cttggccttgtagacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980

Sbjct: 41396095 cttgggtcatgagatagtggtcaatatgtttcggtgcgcaattcaacaacaatcttctg
41396154

Query: 981 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgg
1040

Sbjct: 41396155 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
41396214 tacacattagagacacttttcaatgtatacacatgatgtatgtagttcctatactgatgg

Query: 1041 t g a g c a t g c t t a t a a a c a a c --- a a c a t g a g a a c a a a a c a t g t g c a t t t t t t g a a a t t t g
1097

Sbjct: 41396215 tgaacatgcttacaagcagcagtaacatgag-acaaggcatgtgcaatttttagaatttg
41396273

Query: 1098 tcacagtcacactacctttcatctagctt 1126
 ||| ||||| ||| ||||| |||||

Sbjct: 41396274 tcatagtcacaccacccttcatctagctt 41396302

Score = 190 bits (96), Expect = 7e-46
 Identities = 300/363 (82%), Gaps = 5/363 (1%)
 Strand = Plus / Plus

Query: 1055 aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacct
 1114

Sbjct: 39516099 aacaacaacatgagaacaatacatgtgtaatttttggaatttgtcatatccacactacct
 39516158

Query: 1115 ttcattctagcttgaccatgaaattttctcactagttgaatctctctctccagttaattgtc
 1174

Sbjct: 39516159 tttatccagcctaatacgtgaaatttat-agtaggtcaaac-ctttctc-agttaattatc
 39516215

Query: 1175 tcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcc
 1234

Sbjct: 39516216 tcctggactaataatcgtatgtcacatcaatcgaactccagaacaatgtaagtgtttgcc
 39516275

Query: 1235 tttttctgtatgtctttcatagccttggttaataacttttgataaaacttcaccaaagtga
 1294

Sbjct: 39516276 tttatctgtgcatctttcatgatcttggttagtacttgcgataaaacttgactagatgta
 39516335

Query: 1295 atcactcttgcgacttctctcccccttggttgaacaatgcattacacctagtataggtt
 1354

Sbjct: 39516336 agcattgttgtagcttctctctcctcttggttgaacaatgcattacaccttatatatgtt
 39516395

Query: 1355 gattttaccaa--cacacattgccagattttgtgttttcttgagtaccaaattaattaac
 1412

Sbjct: 39516396 ggttttaccaatgcacttatttgagattttgtgttttcttggttatcaaattaatcaac
 39516455

Query: 1413 tca 1415

Sbjct: 39516456 tca 39516458

Score = 186 bits (94), Expect = 1e-44
Identities = 165/185 (89%), Gaps = 4/185 (2%)
Strand = Plus / Plus

Query: 572 tatttgattattataataacataattaaacaacaacttaattgaaattaaaaaatatatat
631
|||||
Sbjct: 40458885 tatttgattattaaaaatatataattaatcaacaaattaattaaaattaaaaaa-atatat
40458943

Query: 632 ttaactgacaagttgacttgaactaaaatatatttaaattacaaaatagatatgaaattaca
691
|||||
Sbjct: 40458944 ttaaccaacattttgaattaaactaaaatatatttaaattacaaaatagatatataaaatcaca
40459003

Query: 692 aacaatagaacaaaatatatttaaatttgaaataatacaacaaaaattttaaaatacaaaaca
751
|||||
Sbjct: 40459004 aacaatagaacaaaatatatttaaattt-aaataataca--gtaaattttaaaatacaaaaa
40459060

Query: 752 atatg 756
|||||
Sbjct: 40459061 atatg 40459065

Score = 172 bits (87), Expect = 2e-40
Identities = 138/155 (89%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatatttaaattacaa
673
|||||
Sbjct: 21077727 aaattaaaaaaaagatatgtaaccaacaagttaaattgaactaaaatatatttaaattacca
21077786

Query: 674 aatagatatgaaattacaaacaatagaacaaaatatatttaaatttgaaataatacaacaaa
733
|||||
Sbjct: 21077787 aatatatataaaaattacaaacaatataacaaaatatatttaaatttgaaacaatacaacaaa
21077846

Query: 734 aattttaaaatacaaaacaatatggcataaaattaa 768
|
Sbjct: 21077847 atattttaaaatacaaaagaatatgacataaaatttaa 21077881

Score = 170 bits (86), Expect = 6e-40
 Identities = 149/169 (88%), Gaps = 2/169 (1%)
 Strand = Plus / Minus

Query: 561 tttttttttttttttttgattattataataacataattaaacaacaacttaattgaaattaa
 620
 ||||| | ||||||||||||||| ||||||||||| | | || ||||||||||||||||
 Sbjct: 40459261 ttttttcaatttttttggattattaaaatacataattcatccactacttaattgaaattaa
 40459202

Query: 621 aaaatatatatttaactgacaagttgacttgaactaaaatatttaaattacaaaatagat
 680
 |||| |||| |||| |||||||| ||||||||||||||||||||||||||||
 Sbjct: 40459201 aaaacatat--ttaaccaacaagttgaaatgaactaaaatatttaaattacaaaatagat
 40459144

Query: 681 atgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaa 729
 || ||||| || |||| | ||||||||||||||| |||||||||
 Sbjct: 40459143 ataaaattataaataatataataaaaatatttaaattttaaataatacaa 40459095

Score = 157 bits (79), Expect = 9e-36
 Identities = 135/151 (89%), Gaps = 2/151 (1%)
 Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
 698
 |||||||| |||||||||||||||||||||||||||| | | |||||| | ||||
 Sbjct: 37648943 acaagttgaattgaactaaaatatttaaattacaaaatattt-taaaattacaaaaata
 37648885

Query: 699 gaacaaaatatttaaatttgaaataataacaacaaaaattttaaaatacaaacaatatggc
 758
 |||||||||||||||| |||| |||||||||||||||||||||||||||| ||||| |
 Sbjct: 37648884 gaacaaaatatttaaattgagaaa-aatacaacaaaaattttaaaatacaaagaatatgac
 37648826

Query: 759 ataaaattaatggttggttgccctgagcctaca 789
 || || |||||||||||| | |||||||
 Sbjct: 37648825 atcaatttaatggttggttgccctcagcctaca 37648795

Score = 137 bits (69), Expect = 9e-30

Identities = 168/200 (84%), Gaps = 2/200 (1%)
Strand = Plus / Minus

Query: 1582 ctacaaatcattaaataataacaattacaatcaaataatttggggaggggg--tcttcaaa
1639

Sbjct: 12890699 ctacaaatcattaaatgataaaatagaaatcaaataaatagggggggggggttcttcaaa
12890640

Query: 1640 acttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaaga
1699

Sbjct: 12890639 actcgattcaagggttcattgcttgatcgagggtattcatcaaagcctccaaattgaaaga
12890580

Query: 1700 gcttgcagaaactgggtgggtggttgatgcataatgtttatgtgggtgtgtctacgggtgataac
1759

Sbjct: 12890579 gctggtagaaattgggtgggtggacgtgcacatgtttgtgtgggcgggtctgtgggtggaat
12890520

Query: 1760 ataaaaactcaaggcatgtga 1779
||| ||||| ||||| |||||

Sbjct: 12890519 atataactccaggcatgtga 12890500

Score = 135 bits (68), Expect = 3e-29
Identities = 131/151 (86%), Gaps = 2/151 (1%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
698

Sbjct: 18377802 acaagttgaattgaactaaaatatttaaattataaaaatatataaaattaccaacaaca
18377743

Query: 699 gaacaaaatattttaaatttgaaataatacaacaaaaattttaaaatacaaacaatatggc
758

Sbjct: 18377742 aaacaaaatattttaaattttaaaacaatacaataaattttttaaaatacaaagaatatg--
18377685

Query: 759 ataaaaattaatgttggttgccctgagcctaca 789
| | | ||||| ||||| ||||| |||||

Sbjct: 18377684 acagatttaatgttggttgccctgagcgtaca 18377654

Score = 133 bits (67), Expect = 1e-28
Identities = 202/246 (82%), Gaps = 2/246 (0%)
Strand = Plus / Minus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224
 ||||||||||||||||||| ||||| ||| ||| ||| |||| |||||||||||||
Sbjct: 6819565 gttaattgtctcctagaccaagaactgtgtgttacatcgatcaaacttaagaacaatgtg
6819506

Query: 1225 agagtttgcctttttctgtatgtctttcatagccttgtttaatacttttgtataaacttc
1284
 || ||||| || | ||| | ||||| ||| ||||| ||| ||| | |||||||||
Sbjct: 6819505 agtgtttgtctctctctatgtgtcttccatggccttgcttagtacctacgtataaacttg
6819446

Query: 1285 accaaatgtaatcactcttgcgacttctctccccctttgggtgaacaatgcattacacct
1344
 | | ||||| || | ||||||||||||||| ||||||| ||||||| |||||
Sbjct: 6819445 attagatgtaagcattgttgcgacttctctccctctttgggtgaataatgcattacacct
6819386

Query: 1345 agtatagggtgattttaccaacacac--attgccagattttgtggtttcttgagtacaa
1402
 ||||| ||||||||||| ||||||| |||| ||||| ||||| || ||||| |
Sbjct: 6819385 tatatatgttgattttactaacacacttattggcagatttcagtttttttagtatcga
6819326

Query: 1403 attaatt 1408
 |||||
Sbjct: 6819325 attaatt 6819320

Score = 125 bits (63), Expect = 3e-26
Identities = 183/222 (82%), Gaps = 2/222 (0%)
Strand = Plus / Minus

Query: 1194 tgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttca
1253
 ||||||| ||| || ||||||||||| |||| ||||| |||| ||||| ||||| ||
Sbjct: 18377290 tgtcgcacgatcaaagtcaagaacaatatgagtggttgtctttctctgtgtgtcttcca
18377231

Query: 1254 tagccttgtttaatacttttgtataaacttcaccaaattgtaatcactcttgcgacttctc
1313
 | ||||||||| ||||| ||||||||||| ||||||| || | |||||||||

Sbjct: 18377230 tggccttgtttagtacttatgtataaaacttagttaaatgtaagcattggtgcgacttcta
18377171

Query: 1314 tccccctttggttgaacaatgcattacacctagtatagggtgattttaccaacacac--a
1371

||||| ||||||| ||||||| ||||||| ||||||| ||| ||| ||| |||
Sbjct: 18377170 tccctctttggttgaaaaatgcattgcaccttatatatggttgatttgactagcgactta
18377111

Query: 1372 ttgccagattttgtggttttcttgagtaccaaattaattaact 1413
||| ||||||| ||||||| ||||||| ||||||| |||

Sbjct: 18377110 ttggtagatttcgtggttttcttgagtatcgaattaatcaact 18377069

Score = 123 bits (62), Expect = 1e-25
Identities = 104/118 (88%)
Strand = Plus / Minus

Query: 673 aaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataataacaacaa
732

||||| ||||||| ||||||| ||||||| ||||||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 12181678 aaatagatatataaaattacaaacaatagagcaaaaatatttatattacaagtaataacaacaa
12181619

Query: 733 aaattttaaaatacaaaacaatatggcataaaattaatggttggtggcctgagcctacac
790

||| ||||| ||||||| ||| ||||||| ||||||| ||||||| ||||||| |||
Sbjct: 12181618 aaaaattaaattacaaacaatacaacataaaattaagttggttggtgagcctacac
12181561

Score = 109 bits (55), Expect = 2e-21
Identities = 73/79 (92%)
Strand = Plus / Minus

Query: 1061 aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
1120

||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||| ||| ||| |||
Sbjct: 6819667 aacatgagaacaagacatgtgcaatttttgaatttgtcacagtcacaccacctttcatc
6819608

Query: 1121 tagcttgaccatgaaattt 1139
|| ||||||| |||||||

Sbjct: 6819607 cagtgtgaccatgaaattt 6819589

Score = 103 bits (52), Expect = 1e-19
Identities = 224/279 (80%), Gaps = 8/279 (2%)
Strand = Plus / Minus

```
Query: 848      cattttggtgtgtatatacagagaggagacatgacaaccttttagaattttcttttccatttttgg
907            ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 4553811 cattttggtgtggatacagtagagacaggacaatcttttagta---ctttt--tttttgg
4553757
```

```
Query: 908      gttgggggcaaattcttggccttgtagacatggtgaccaacatgcttcattgcacaattttccc  
967            |||  || | ||   ||||| | | | | | | | | | | | | | | |  
Sbjct: 4553756 gtttagggacatcattggctcgtagacatgatgaccaatagggtttcattgcataattcttc  
4553697
```

```
Query: 968      aagtaatcatttgtacatgttatagatacttttcagcgatatacacaagatgtatgtagtt
1027           ||   |||  ||   ||   |||  |||||  |||||  |||||  |||||  |||||
Sbjct: 4553696 aaacaattatctgtatatgttgagacatttttcaacctttacacaagatgtatgtagtt
4553637
```

```
Query: 1028      cctatactcatggtgagcatgcttata---aacaacaacatgagaacaaaacatgtgcat
1084
                ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4553636  tctgtactcatgatgaacatgcttacaagcaacaacaacatgagaacaagacatgtgcaa
4553577
```

```
Query: 1085      tttttgaaatttgtcacagtcacactacctttcatctag 1123
                ||| | ||||| ||||| ||||| ||||| |||||
Spict: 4553576 cttctagaatttgcacagtcacaccacctttcgtctag 4553538
```

Score = 99.6 bits (50), Expect = 2e-18
Identities = 115/136 (84%), Gaps = 3/136 (2%)
Strand = Plus / Minus

```
Query: 1005      gtatacacaaagatgtatgtagttcctataactcatgggtgagcatgcttataaaca---aca
1061            |||
Sbjct: 37648557 gtatacacaaaatgaatgtagttcctgtactcacggtaagcatgcttacaagcagaaaca
37648498
```

[illegible]

Query: 1028 cctatactcatggtgagcatgcttataa 1055

Sbjct: 12910144 atatatgtagtttctgtactcacgatgagcatgcttacaagaagtaacaacatgagaaca
12910085

Query: 1073 aaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgac
1129

| | |||| | ||| || |||||| |||||||| | ||||||||| |||||||||
Sbjct: 12910084 aggcttgtgtaatttctggaatttgccacagtcacgccacctttcatctagcttgac
12910028

Score = 91.7 bits (46), Expect = 5e-16
Identities = 130/158 (82%)
Strand = Plus / Plus

Query: 907 gggtggggcaaattcttggcttgtgacatgggtgaccaacatgcttcattgcacaatttcc
966

||||| ||||||||| |||||| |||||| |||||| ||||||||| |||||||
Sbjct: 39515939 gggtgaggcaaattcttggctcgtgacacgggtgatcaacatacttcattgcgcaattctc
39515998

Query: 967 caagtaatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagt
1026

|||| ||| | |||| | || ||| | || | |||||| ||||||||| |||||||
Sbjct: 39515999 caagcaattctctgtatacattggagacattttctaacgtatatacacaagatgtatgtagt
39516058

Query: 1027 tcctatactcatgggtgagcatgcttataaacaacaaca 1064

| | |||||| ||||||||| |||||||||
Sbjct: 39516059 ttttgtactcatgctgagcatgcttataaacaacaaca 39516096

Score = 87.7 bits (44), Expect = 7e-15
Identities = 100/118 (84%), Gaps = 3/118 (2%)
Strand = Plus / Minus

Query: 1006 tatacacaagatgtatgtagttcctataactcatgggtgagcatgcttata---aacaacaa
1062

||||||||||| ||||||||| | ||||||||| |||||||| | | |||||||
Sbjct: 18377479 tatacacaagatgtatgtagttcttgactcatgggtgaacatgcttacaagtagcaacaa
18377420

Query: 1063 catgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
1120

||||||| || ||||||||| |||| | |||||| |||||| || | |||||||||
Sbjct: 18377419 catgagaaaaagacatgtgcaattttgggaatttgccacagtgactccacctttcatc
18377362

Score = 81.8 bits (41), Expect = 5e-13
Identities = 71/81 (87%)
Strand = Plus / Minus

Query: 703 aaaatattttaaatTTTgaaataataacaacaaaaattttaaaatacaacaatatggcataa
762
 |||||
Sbjct: 4553978 aaaatattttaaatTTTgaaataataacaacaaaaattttacaatacaataatatggcgta
4553919

Query: 763 aattaatgTTgTTggcctgag 783
 | | | |
Sbjct: 4553918 attcaacgTTgTTggcctgag 4553898

Score = 81.8 bits (41), Expect = 5e-13
Identities = 50/53 (94%)
Strand = Plus / Minus

Query: 544 agagTTgaaatcctTTgtatTTTtattTTtattTgattattataataacataatt 596
 |||||
Sbjct: 6820196 agagTTgaaatcctTTgtatTTTtattTTtattTgattattataataataatt 6820144

Score = 81.8 bits (41), Expect = 5e-13
Identities = 50/53 (94%)
Strand = Plus / Minus

Query: 544 agagTTgaaatcctTTgtatTTTtattTTtattTgattattataataacataatt 596
 |||||
Sbjct: 29994632 agagTTgaaatcgtTTgtatTTTtattTTtattTgatttttaataacataatt
29994580

Score = 81.8 bits (41), Expect = 5e-13
Identities = 69/76 (90%), Gaps = 3/76 (3%)
Strand = Plus / Minus

Query: 639 acaagTTgactTgaactaaaatattttaattacaaaatagatatgaaattacaaacaata
698
 |||||
Sbjct: 38913860 acaagTTgaattgaactaaaatattttaattataaaat--atataaaattaccaacaata
38913803

Query: 699 gaacaaaatattttaa 714
 |||||
Sbjct: 38913802 -aacaaaatattttaa 38913788

Score = 79.8 bits (40), Expect = 2e-12
Identities = 133/163 (81%), Gaps = 2/163 (1%)
Strand = Plus / Minus

Query: 1257 ccttgtttaatacttttgtataaaacttcaccaaagttaatcactccttgcgacttctctcc
1316
 |||||
Sbjct: 37648307 ccttgtttagtacttgcgatataaaacttggttagatgcaagcattggtgcgacttctttcc
37648248

Query: 1317 ccctttgggtgaacaatgcattacacctagtaggttgattttaccaa--cacacattg
1374
 | ||||
Sbjct: 37648247 ctcttttggtgaacaatgcattacaccttagatatggttgattttactaatgcataatg
37648188

Query: 1375 ccagattttgtgttttcttgagtaccaaattaattaactcagt 1417
 || |||||
Sbjct: 37648187 acatattttttgatttcttgagtatcgaattaattgactcagt 37648145

Score = 77.8 bits (39), Expect = 7e-12
Identities = 72/83 (86%)
Strand = Plus / Minus

Query: 707 tattttaaatttgaaataataacaacaaaaattttaaaatacaaacatattggcataaaatt
766
 |||||
Sbjct: 18688142 tattttaaatttgaaacaataacaacaaaaatttgaaaatagaaagagtatgagatgaagtc
18688083

Query: 767 aatggttggtggcctgagcctaca 789
 |||||
Sbjct: 18688082 aatggttggtggcctgagcctaca 18688060

Score = 77.8 bits (39), Expect = 7e-12
Identities = 101/120 (84%), Gaps = 5/120 (4%)
Strand = Plus / Minus

Query: 441 aattgtctatatttgtgttctgtttaaattgaaaacaatattatctatgttggtta
 500

|||| |||||||| ||| ||||| ||||| ||||||||| |||||||||
 Sbjct: 29995040 aattatctatatttatgtttcatttaaactgaaaataatattatctatgttggtg
 29994981

Query: 501 attcttaatttcttatgcatattttatgttttatcatttttt-aagagttgaaatccttt
 559

||||||| || ||||||||| ||||||||| ||||||| ||||||||| |||||||||
 Sbjct: 29994980 ----ttaatttttttgcataatttttgttttattatctttgaagagttgaaatccttt
 29994925

Score = 73.8 bits (37), Expect = 1e-10
 Identities = 163/198 (82%), Gaps = 9/198 (4%)
 Strand = Plus / Minus

Query: 608 taattgaaatta-aaaaatatatatttaactgacaagttgacttgaactaaaatatttaa
 666

||||||||||| ||||| | ||||||||| | ||||| | | ||||||||| |||||||
 Sbjct: 29994584 taattgaaattataaaaaaacatatttaacccaaaagttaaattaaactaaaatatttaa
 29994525

Query: 667 attacaaaatagatatgaa----attacaaacaatagaacaaaatattttaaatttgaaat
 722

|||| || ||| |||| | |||| ||| ||| ||||||||| ||||||||| |||
 Sbjct: 29994524 attataatatatatatatataattaaaaa-aatggaacaaaatattttaaatttaaac
 29994466

Query: 723 aatacaacaaaaatttttaaatac-aaacaatatggcataaaattaatgttggttggc-ct
 780

||||||| ||||||||| ||||||| ||| ||||||| ||| ||| ||||| ||||||||| |
 Sbjct: 29994465 aatacaac-aaaatttttaaatacaaaaaaatatgacattaatttaacggttggtgcttt
 29994407

Query: 781 gagcctacacaatggggg 798

| ||||||||| |||||
 Sbjct: 29994406 gtacctacacaatggggg 29994389

Score = 71.9 bits (36), Expect = 4e-10
 Identities = 115/140 (82%), Gaps = 1/140 (0%)
 Strand = Plus / Minus

Query: 805 gacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatac
 864

|||||
 Sbjct: 6819927 gacacatggaacatcgcttttagtttacccaattcttggatatccatttcagtgt-tatat
 6819869

Query: 865 gagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattcttg
 924

|
 Sbjct: 6819868 gggaggagacaagacgatccttaaaatttcttttcttctctgggtcgaggcagattattg
 6819809

Query: 925 gcttgtgacatggtgaccaa 944

|||||
 Sbjct: 6819808 gcttgaaacacggtgaccaa 6819789

Score = 69.9 bits (35), Expect = 2e-09
 Identities = 50/55 (90%)
 Strand = Plus / Minus

Query: 1417 tgtcccatcgccagccaccatcccatgcgagagtcacttttcttgtggaatct 1471

|||||
 Sbjct: 18377048 tgtcccatcggtggccaccatcccatgcgagagtcacttttcttacggaatct
 18376994

Score = 69.9 bits (35), Expect = 2e-09
 Identities = 83/99 (83%)
 Strand = Plus / Minus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
 1224

|||||
 Sbjct: 29994012 gttaattctctcttagaccaagaactgtgtgtcgcattcaattgaactcaagaacaatgtg
 29993953

Query: 1225 agagtttgcccttttctgtatgtctttcatagccttggt 1263

||
 Sbjct: 29993952 agtatttgccttttctgtgcgtcttccatggccttggt 29993914

Score = 67.9 bits (34), Expect = 7e-09
 Identities = 61/70 (87%)
 Strand = Plus / Minus

Query: 1420 ccccatcgccagccaccatcccatgcgagagtccacttttcttggtggaatcttcctaagc
1479
||||||| ||||| ||||| ||||| ||||| || ||||| ||||| ||||| |||||
Sbjct: 12909728 ccccatcgtcagccatcatccaatgcaagagttcatttttctcggtggaatcttcctgagc
12909669

Query: 1480 taattaattg 1489
|||||||
Sbjct: 12909668 caattaattg 12909659

Score = 67.9 bits (34), Expect = 7e-09
Identities = 47/50 (94%), Gaps = 1/50 (2%)
Strand = Plus / Plus

Query: 516 tgcataatatttatgttttatcatttttt-aagagttgaaatcctttgtatt 564
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39515563 tgcataatatttatgttttatcattttttgaagagttgaaatcctttgtatt 39515612

Score = 65.9 bits (33), Expect = 3e-08
Identities = 66/77 (85%)
Strand = Plus / Minus

Query: 427 ttttttttggttattaattgtctatatatttggttctgtttaaattgaaaacaatattattt
486
||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40459361 ttttttggttattaactatatatatatttatgttttggtttaaactgaaaataatattattt
40459302

Query: 487 ttcatatgttggttaatt 503
| ||||| |||||
Sbjct: 40459301 tatatatgttattaatt 40459285

Score = 65.9 bits (33), Expect = 3e-08
Identities = 57/65 (87%)
Strand = Plus / Plus

Query: 726 acaacaaaaatttttaaaatacaaacaaatattggcataaaaattaatggttggtggcctgagcc
785
||||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41395878 acaacaaaaatttttaaaattgtaaacaaatattgacataaaacttaacgttggtggcgtgagcc
41395937

```
Query: 439      ttaattgtctatatatttgtgttctgtttaaattgaaaacaatattatTTTTcatatgttgt
498            ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 6820613 ttaattatctatatatttatgttttgtttaaacgaaaataatattatTTTTgtatatgttgt
6820554
```

```
Query: 499      taattcttaattttcttatgcatatTTTTATGTTTtAtcatttttt-aagagtTgaaatcct
557              ||          ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6820553 ta-----tttttttgcatatTTTTTGTTTAttattttttgaaaaggTgaaatcct
6820503
```

```
Query: 558      ttgt 561
          ||||
Sbjct: 6820502 ttgt 6820499
```

```
Query: 554      tcctttgtatttttattttatttgattattataatacata 593
               |||||||
Sbjct: 20884849 tcctttgtattttcattttatttgattattaaaatacata 20884888
```

Score = 61.9 bits (31), Expect = 4e-07
Identities = 58/67 (86%)
Strand = Plus / Minus

```
Query: 557      tttgtatTTTTATTtTTtATTtgattattataataacataaTTaaacaacaactttaattgaaa
616
          |||
Sbjct: 12181888 tttgtatTTTtcatTTTtCTTtggttagtAAAatagataaTTaatcaacaactttaattgatc
12181829
```

Query: 617 ttaaaaa 623
 |||||
Sbjct: 12181828 ttaaaaa 12181822

Score = 61.9 bits (31), Expect = 4e-07
Identities = 52/59 (88%)
Strand = Plus / Minus

Query: 703 aaaatatttaaatttgaaataataacaacaaaaattttaaaatacaaacaatatggcata
761
 ||||| ||||| || ||| ||||| ||||| ||||| |||||
Sbjct: 12910479 aaaatatttaaatttgaaataataacaacacaattttaaaatacaaagaatatgacata
12910421

Score = 61.9 bits (31), Expect = 4e-07
Identities = 70/83 (84%)
Strand = Plus / Minus

Query: 817 atcattttggtttacctgattcttggatatccattttggtgtgtatacgagaggagacat
876
 ||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29994348 atcattttggttaactcgattctcggatatccattttgatgtgtatagtagaggagtcac
29994289

Query: 877 gacaacctttagaatttcttttc 899
 ||| ||| ||| ||||| |||||
Sbjct: 29994288 gacgacccttaaaatttatttttc 29994266

Score = 60.0 bits (30), Expect = 2e-06
Identities = 57/66 (86%)
Strand = Plus / Minus

Query: 1055 aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacct
1114
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29994119 aacaaaaacatgagaacatggcatgtgcaatttttggaaatttatcacagtcacatcacct
29994060

Query: 1115 ttcatc 1120
 |||||
Sbjct: 29994059 ttcatc 29994054

Score = 60.0 bits (30), Expect = 2e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 558 ttgtatTTTTtattttatttgattattataatacataaattaaa 599
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39030130 ttgtatTTTtcattttatttgattattaaaatacatattttaa 39030171

Score = 60.0 bits (30), Expect = 2e-06
Identities = 86/101 (85%), Gaps = 4/101 (3%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaattacaa
673
 ||||| ||||| ||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39030170 aaattaaaaaa-atacatgtaaccaacaagttgaattgaactaaaatatttaatatataa
39030228

Query: 674 aatagatatgaaattacaaacaatagaacaaaatattttaa 714
 ||| ||||| ||||| ||||| ||||| ||| ||||| ||||| |||||
Sbjct: 39030229 aat--atataaaattaccaacaata-aataaaatattttaa 39030266

Score = 58.0 bits (29), Expect = 7e-06
Identities = 32/33 (96%)
Strand = Plus / Plus

Query: 684 aaattacaaacaatagaacaaaatattttaaatt 716
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40572195 aaattacaaacaatagaacataatattttaaatt 40572227

Score = 56.0 bits (28), Expect = 3e-05
Identities = 58/68 (85%)
Strand = Plus / Plus

Query: 723 aatacaacaaaaatttttaaatacaaacataatggcataaaattaatgttggtggcctga
782
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39515737 aatacaataaaatttttaaatacaataacatgacataaatttaatatgggtggcctaga
39515796

Query: 783 gcctacac 790
|||||||
Sbjct: 39515797 gcctacac 39515804

Score = 54.0 bits (27), Expect = 1e-04
Identities = 48/55 (87%)
Strand = Plus / Minus

Query: 1308 cttctctcccccttttggttgaacaatgcattacacctagtatagggttgattttac 1362
||||||| ||| ||||||||| ||||||| || |||||||||
Sbjct: 12909851 cttctctccctcttttggttgaacaatgtgttacacctaacaatgattttac
12909797

Score = 54.0 bits (27), Expect = 1e-04
Identities = 48/55 (87%)
Strand = Plus / Minus

Query: 1308 cttctctcccccttttggttgaacaatgcattacacctagtatagggttgattttac 1362
||||| ||| ||| ||||||||||||||||||| || |||||||||
Sbjct: 18687518 cttctgtccctcttttggttgaacaatgcattacaccttagatatgattttac
18687464

Score = 54.0 bits (27), Expect = 1e-04
Identities = 43/47 (91%), Gaps = 1/47 (2%)
Strand = Plus / Plus

Query: 519 atattttatgttttatcatttttt-aagagttgaaatcctttgtatt 564
||||| ||||||| ||||| ||||||||| |||||||
Sbjct: 47284931 atattttttggttttatccttttttgagagttgaaattcctttgtatt 47284977

Score = 52.0 bits (26), Expect = 4e-04
Identities = 62/74 (83%)
Strand = Plus / Minus

Query: 1416 gtgtcccatcgccagccaccatcccatgagagtgccacttttcttggtggaatcttcct
1475
||||||| ||||| ||||| ||| ||||||||| ||||||| | ||||| |
Sbjct: 37648129 gtgtcccatcatcagccgcatctcatgtgagagtgccacttttcttgcgaaatctcatt
37648070

Query: 1476 aagctaattaattg 1489
 |||||
Sbjct: 37648069 gagctaattaattg 37648056

Score = 52.0 bits (26), Expect = 4e-04
Identities = 50/58 (86%)
Strand = Plus / Plus

Query: 1432 ccaccatcccatgcgagagtccacttttctgtggaatcttcctaagctaattaattg
1489
 |||||
Sbjct: 39516492 ccaccatcccatgtgagagtccactcgtctcgtgaaatcttgtaagccaattaattg
39516549

Score = 50.1 bits (25), Expect = 0.002
Identities = 49/57 (85%)
Strand = Plus / Minus

Query: 1307 acttctctcccccttttggttgaacaatgcattacacctagtatagggttgattttacc 1363
 |||||
Sbjct: 4746908 acttctctcccttttttagttgaacaatatattacatcttatatagggttgattttacc
4746852

Score = 50.1 bits (25), Expect = 0.002
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 1420 ccccatcgccagccaccatcccatgcgagagtccacttttc 1460
 |||||
Sbjct: 18687387 ccccatcgctcggccaccatcccatgcaagagtccatttttc 18687347

Score = 50.1 bits (25), Expect = 0.002
Identities = 31/33 (93%)
Strand = Plus / Minus

Query: 1431 gccaccatcccatgcgagagtccacttttcttg 1463
 |||||
Sbjct: 29993856 gccaccatcccatgcaagagtccatttttcttg 29993824

Score = 48.1 bits (24), Expect = 0.006
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 1309 ttctctccccctttggttgaacaatgcattacacct 1344
 ||||| ||| ||| ||||| ||||| ||||| |||||
Sbjct: 4553354 ttctctccctcttttgttgagcaatgcattacacct 4553319

Score = 48.1 bits (24), Expect = 0.006
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 642 agttgacttgaactaaaatatttaaatt 669
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 12910493 agttgaattgaactaaaatatttaaatt 12910466

Score = 48.1 bits (24), Expect = 0.006
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcatttttggtt 828
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18377620 atgcgacacatggaacatcacttttggtt 18377593

Score = 48.1 bits (24), Expect = 0.006
Identities = 45/52 (86%)
Strand = Plus / Minus

Query: 157 atgagagttttttttatccaaataataaaaaaaaaattaattatttaccctaaa 208
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18378796 atgagagttttttttatgtaaataatacaataaaataaatatttgccctaaa 18378745

Score = 48.1 bits (24), Expect = 0.006
Identities = 36/40 (90%)
Strand = Plus / Minus

Query: 554 tcctttgtattttttattttatttgattattataataacata 593
 ||||| || | ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 38913931 tcctttgtgttctcattttatttgattattaaaatacata 38913892

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaaattaatta 198
|||||
Sbjct: 2178630 aaataataaaaaaaaaaattaatta 2178652

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 481 ttatttttcatatggttgtaatt 503
|||||
Sbjct: 12181814 ttatttttcatatggttgtaatt 12181792

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 1524 atatttttattataaaaacaaaca 1546
|||||
Sbjct: 40892168 atatttttattataaaaacaaaca 40892146

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 404 ttttaaaattggttgatatttttattttttt 433
|||| ||||| |||||
Sbjct: 18378510 tttttaaattggttttatttttattttttt 18378481

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 41272803 aaattaaaaaatatatatttaa 41272824

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaa 635
|||||
Sbjct: 43874134 aaattaaaaaatatatatttaa 43874113

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattta 634
|||||
Sbjct: 2196804 aaattaaaaaatatatattta 2196784

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 415 tttgtatttttatttttttgttattaat 443
|||| |
Sbjct: 5444036 tttgaatttttattctttttggtattaat 5444064

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 387 ctttttttttgttttgtttt 407
|||||
Sbjct: 21967089 ctttttttttgttttgtttt 21967109

Score = 42.1 bits (21), Expect = 0.39

Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttt 407
|||||||
Sbjct: 37663373 cttttttttttgttttgtttt 37663393

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaattaattatt 200
||||||| |||||||
Sbjct: 45451094 aaataatataaaaaaattaattatt 45451070

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 562 atttttattttatttgattattata 586
||||||| |||||||
Sbjct: 48194541 atttttattttatttgattattata 48194565

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 891 tttcttttcatttttgggtt 910
|||||||
Sbjct: 4002583 tttcttttcatttttgggtt 4002564

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 391 tttttttgttttgttttaaaattg 414
||||||| |||||
Sbjct: 4078606 tttttttgttttgttttcaaattg 4078583

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatattta 634
|||||||
Sbjct: 4777720 aattaaaaaatatatattta 4777701

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 162 agttttttttatccaaataataaaaaaa 189
||||||| || |||||
Sbjct: 5524271 agttttttttatacacataataaaaaaa 5524298

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 1521 caaatatttttattataaaaacaaa 1544
||||||| |||||
Sbjct: 8466513 caaatatttttattttaaaacaaa 8466536

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaaaaattaattatt 200
||||||| |||||
Sbjct: 16385281 aataataaaaaaaaaaattagttatt 16385258

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 266 cttaattacatttttttata 285
|||||||

Sbjct: 30328184 ctttaattacatTTTTTTTata 30328165

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 237 ttttttccttagttaagaaa 256
 |||||
Sbjct: 31515756 ttttttccttagttaagaaa 31515775

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 387 ctttttttttTgttttgttt 406
 |||||
Sbjct: 32064752 ctttttttttTgttttgttt 32064771

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 566 ttattttatttgattattat 585
 |||||
Sbjct: 35313887 ttattttatttgattattat 35313868

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttTgttttgttt 407
 |||||
Sbjct: 37327633 ttttttttttTgttttgttt 37327614

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
|||||||
Sbjct: 37625031 aaattaaaaaatatatattt 37625012

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgttttaaaat 412
|||||||
Sbjct: 38858248 tttttttttgttttgttttcaaatt 38858225

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 426 attttttttgttattaattg 445
|||||||
Sbjct: 38955243 attttttttgttattaattg 38955262

Score = 40.1 bits (20), Expect = 1.5
Identities = 41/48 (85%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcattttggtttacctgattcttggatatccattt 852
|||| |||||
Sbjct: 39030345 gacatatggaacatcacttttgtttatctggttcttagatattcattt 39030392

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaaattaa 195
|||||||
Sbjct: 40534820 aaataataaaaaaaaaaattaa 40534801

Score = 40.1 bits (20), Expect = 1.5

Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 237 ttttttccttagttaagaaa 256
|||||||
Sbjct: 41399185 ttttttccttagttaagaaa 41399166

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 613 gaaattaaaaaatatatatt 632
|||||||
Sbjct: 41685797 gaaattaaaaaatatatatt 41685816

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 415 tttgtatttttatttttttt 434
|||||||
Sbjct: 43497754 tttgtatttttatttttttt 43497773

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaac 1541
|||||||
Sbjct: 47529063 aaatatattttattataaaac 47529044

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 167 tttttatccaaataataaaaaaaatta 194
||||||| |||| |||||||
Sbjct: 48834664 tttttatcaaaatcataaaaaaaatta 48834637

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1581 actacaaatcattaaataat 1600
 |||||
Sbjct: 48985179 actacaaatcattaaataat 48985160

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 24 tggaacaaggcaacgacaac 43
 |||||
Sbjct: 50354609 tggaacaaggcaacgacaac 50354590

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 325 ttcattttttttttcaaaa 343
 |||||
Sbjct: 14449 ttcattttttttttcaaaa 14467

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 330 tttttttttcaaaaccaag 348
 |||||
Sbjct: 1294312 tttttttttcaaaaccaag 1294294

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 404 ttttaaaattgtttgtattttta 426
 ||||| |||||

Sbjct: 1429149 ttttaaaattgtttttattttta 1429127

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 194 aattattttacccaaaaaattatt 216
||||||| |||||||||
Sbjct: 2159977 aattattttatccaaaaaattatt 2159955

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
||||||| |||||||
Sbjct: 2700901 aaatatattttattataaaa 2700919

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatattt 633
||||||| |||||||
Sbjct: 2793948 aattaaaaaatatatattt 2793930

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
||||||| |||||||
Sbjct: 2844612 tttttttttgttttgtttt 2844630

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatattttttattataaaa 1540
 |||||
Sbjct: 3021068 aaatattttttattataaaa 3021050

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 3039426 ttaaaaaatatatatttaa 3039444

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 3657132 tttttttttgttttgtttt 3657150

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 390 tttttttttgttttgtttta 408
 |||||
Sbjct: 4118578 tttttttttgttttgtttta 4118560

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 557 tttgtatttttattttatt 575
 |||||
Sbjct: 4482782 tttgtatttttattttatt 4482800

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 725 tacaacaaaaattttataaa 743
 ||||||||||||||||
Sbjct: 4508329 tacaacaaaaattttataaa 4508311

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 178 ataataaaaaaaaaattaat 196
 ||||||||||||||||
Sbjct: 4632768 ataataaaaaaaaaattaat 4632786

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 150 tgtgaaaatgagagtttttttta 172
 |||| ||||||||||||||||
Sbjct: 4854351 tgtgtaaatgagagtttttttta 4854373

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 655 taaaatatttaaattacaa 673
 ||||||||||||||||
Sbjct: 4917894 taaaatatttaaattacaa 4917912

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 325 ttcattttttttttcaaaa 343
 ||||||||||||||||
Sbjct: 4952656 ttcattttttttttcaaaa 4952674

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttt 432
|||||
Sbjct: 5427434 gtttgtatttttatttttt 5427452

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattatt 583
|||||
Sbjct: 5899012 tatttttattttattttattatt 5899034

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatatttttattataaaa 1540
|||||
Sbjct: 6379819 aaatatatttttattataaaa 6379837

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 279 ttttatacathtagaaatt 297
|||||
Sbjct: 7412899 ttttatacathtagaaatt 7412881

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaa 410
|||||

Sbjct: 10761630 tttttttattgttttgttttaaa 10761608

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
|||||||
Sbjct: 11437110 tttttttttgttttgtttt 11437128

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 183 aaaaaaaaaattaattat 201
|||||||
Sbjct: 11713711 aaaaaaaaaattaattat 11713729

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 415 tttgtatttttattttttt 433
|||||||
Sbjct: 11957709 tttgtatttttattttttt 11957727

Score = 38.2 bits (19), Expect = 6.1
Identities = 31/35 (88%)
Strand = Plus / Minus

Query: 419 tatttttattttttttgttattaattgtctatatt 453
||||||| || ||||| |||||
Sbjct: 12182017 tattttttttattttttttattaattgtatatatt 12181983

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 390 ttttttttgttttgtttta 408
 |||||
Sbjct: 12805786 ttttttttgttttgtttta 12805768

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaaaattaa 195
 |||||
Sbjct: 12899425 aataataaaaaaaaaattaa 12899407

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 724 atacaacaaaaatttttaa 742
 |||||
Sbjct: 13236166 atacaacaaaaatttttaa 13236184

Score = 38.2 bits (19), Expect = 6.1
Identities = 31/35 (88%)
Strand = Plus / Plus

Query: 593 aattaaacaacaacttaattgaaattaaaaaatat 627
 ||||| ||||| |||||
Sbjct: 15144135 aattaaacaacaagtaatttgaattaaaaaatat 15144169

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttgttttgtttt 407
 |||||
Sbjct: 16302306 ttttttttgttttgtttt 16302288

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacat ttagaaatt 297
 |||||
Sbjct: 17386310 ttttatacat ttagaaatt 17386328

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 121 gaaaaagaaaaaagaaatg 139
 |||||
Sbjct: 18470203 gaaaaagaaaaaagaaatg 18470221

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattt 633
 |||||
Sbjct: 18704306 aattaaaaaatatatattt 18704324

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgttttaaaa 411
 |||||
Sbjct: 22124796 tttttttttgttttatttttaaaa 22124774

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 22186539 tttttttttgttttgtttt 22186557

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 415 tttgtatttttattttttt 433
 |||||
Sbjct: 28149113 tttgtatttttattttttt 28149131

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1006 tatacacaagatgtatgtagttc 1028
 |||||
Sbjct: 29994159 tatacacatgatgtatgtagttc 29994137

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 409 aaattgtttgtatttttatttttttg 435
 |||| |||||
Sbjct: 29994625 aaatcgtttgtatttttattttatttg 29994599

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 347 agttaagaaatcggttcct 365
 |||||
Sbjct: 31515902 agttaagaaatcggttcct 31515884

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 412 ttgtttgtatttttatttt 430
 |||||

Sbjct: 31985541 ttgtttgtatTTTTtatttt 31985523

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatTTTTtattttatttt 576
 |||||
Sbjct: 32221531 ttgtatTTTTtattttatttt 32221549

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 269 aattacatTTTTttatacatTTA 291
 ||||| |||||
Sbjct: 32361285 aattatatTTTTttatacatTTA 32361263

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgTTTTgttt 406
 |||||
Sbjct: 33471294 ttttttttttgTTTTgttt 33471312

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattatt 583
 ||||| |||||
Sbjct: 33755706 tatttttattttatttgattatt 33755728

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 121 gaaaaagaaaaaagaaatg 139
|||||||
Sbjct: 34416269 gaaaaagaaaaaagaaatg 34416251

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 416 ttgtatTTTTtatttttttt 434
|||||||
Sbjct: 34968101 ttgtatTTTTtatttttttt 34968083

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
|||||||
Sbjct: 35129285 ttaaaaaatatatatttaa 35129267

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 613 gaaattaaaaaatatatat 631
|||||||
Sbjct: 35306981 gaaattaaaaaatatatat 35306999

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1220 atgtgagagtttgcctttt 1238
|||||||
Sbjct: 35479077 atgtgagagtttgcctttt 35479059

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 415 tttgtatTTTTtattttttt 433
 |||||
Sbjct: 35941023 tttgtatTTTTtattttttt 35941041

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 415 tttgtatTTTTtattttttt 433
 |||||
Sbjct: 35997957 tttgtatTTTTtattttttt 35997975

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 376 cttcttaattgctTTTTTTTTtgttt 402
 ||||| ||| |||||
Sbjct: 36989868 cttcttcatttctTTTTTTTTtgttt 36989894

Score = 38.2 bits (19), Expect = 6.1
Identities = 40/47 (85%)
Strand = Plus / Plus

Query: 737 tttaaaatacaaaacaatatggcataaaattaatggttggtggcctgag 783
 ||||| ||||| ||||| ||||| |||||
Sbjct: 39030261 tttaaaatacaaaaaatatgatataaatttaacattggttggtgag 39030307

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 419 tatttttattttttttgttatta 441
 ||||| |||||
Sbjct: 40381688 tatttttatttttttagttatta 40381710

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 333 ttttttcaaaaccaagttaagaaatcg 359
 ||||| ||| ||||| ||||| |||||
Sbjct: 40459429 tttttttaaatacaagttaagaaatcg 40459403

Score = 38.2 bits (19), Expect = 6.1
Identities = 37/43 (86%)
Strand = Plus / Minus

Query: 166 ttttttatccaaataataaaaaaaaaattaattatttaccctaaa 208
 ||||| ||||| ||||| || | ||||| ||||| |||||
Sbjct: 40459649 ttttttaccctaaataatataagtatattaattatttatccaaa 40459607

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 616 attaaaaaatatatatttta 634
 ||||| ||||| ||||| ||||| |||||
Sbjct: 42402555 attaaaaaatatatatttta 42402537

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 606 cttaattgaaattaaaaaa 624
 ||||| ||||| ||||| ||||| |||||
Sbjct: 44403557 cttaattgaaattaaaaaa 44403575

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 498 ttaattcttaatttcttat 516
 ||||| ||||| ||||| ||||| |||||

Sbjct: 44831135 ttaattcttaattttcttat 44831153

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 44934311 ttaaaaaatatatatttaa 44934329

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 44970248 tttttttttgttttgtttt 44970230

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 408 aaaattgtttgtatttttatttt 430
 |||||
Sbjct: 45376381 aaaattgttttatttttatttt 45376403

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 388 tttttttttgttttgttttaa 410
 |||||
Sbjct: 45807261 tttttttttgttttttttaa 45807239

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 382 aattgctttttttttgttttgt 404
 ||||||| |||||||
Sbjct: 45920496 aattgctttctttttgttttgt 45920474

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 650 tgaactaaaatatttaaattacaaaat 676
 ||||||| ||||| |||||
Sbjct: 46404480 tgaactaaaataattaaattccaaaat 46404506

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 164 tttttttatccaaataataaaaaaaaa 190
 ||||||| || |||||||
Sbjct: 47350592 ttttttttatctaattaataaaaaaaaa 47350566

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
 |||||||
Sbjct: 48036112 gtttgtatttttatttttt 48036094

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgat 579
 |||||||
Sbjct: 48445897 tatttttattttatttgat 48445915

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
 Strand = Plus / Minus

Query: 416 ttgtatTTTTtattTTTTtt 434
 |||||
 Sbjct: 48517407 ttgtatTTTTtattTTTTtt 48517389

Score = 38.2 bits (19), Expect = 6.1
 Identities = 19/19 (100%)
 Strand = Plus / Plus

Query: 179 taataaaaaaaaaattaatt 197
 |||||
 Sbjct: 49842621 taataaaaaaaaaattaatt 49842639

Score = 38.2 bits (19), Expect = 6.1
 Identities = 19/19 (100%)
 Strand = Plus / Plus

Query: 672 aaaatagatatgaaattac 690
 |||||
 Sbjct: 49916547 aaaatagatatgaaattac 49916565

>[gb|CM000835.1](#) Glycine max chromosome 2, whole genome shotgun sequence
 Length = 51656713

Score = 248 bits (125), Expect = 3e-63
 Identities = 238/274 (86%), Gaps = 5/274 (1%)
 Strand = Plus / Plus

Query: 516 tgcataTTTTtattTTTTtattTTTT--aagagttgaaatcctttgtatTTTTtatttta
 573
 ||||| ||||| || ||||| |||||
 Sbjct: 11449169 tgcataTTTTtattTTTTtattTTTTtcaacagttgaaatTTTTtattTTTTtatttta
 11449228

Query: 574 tttgattattataatacataattaacaacaacttaattgaaattaaaaaatatatattt
 633
 ||||| || ||||| ||||| ||||| ||||| |||||
 Sbjct: 11449229 tttgattaataaaatacataattaatcaacaacttaattaaaataaaaaaac---atattt
 11449285

[illegible]

Sbjct: 2276647 aaccttgtttagtacttgtatataaaacttgggtcaaataatcattggtgtgacttctct
2276588

Query: 1315 ccccttttggttgaacaatgcattacacctagtaggttgattttaccaacacac--at
1372

|||||
Sbjct: 2276587 ccctcttttggttgaataatgcattacaccttatataggttgattttaccagcacacttat
2276528

Query: 1373 tgccagattttgtggttttcttgagtaccaaattaatt 1409

|| ||||| || ||||| || ||||| |||||
Sbjct: 2276527 tggcagagttcgtggttt-tttagtaccgaattaatt 2276492

Score = 176 bits (89), Expect = 1e-41
Identities = 153/172 (88%), Gaps = 3/172 (1%)
Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatatatatttaactgacaagttgacttgaactaaaatattttaa
667

|||||
Sbjct: 2277321 taattgaaattaaaaaa-acatatattaaccaacaagttgaattaaactaaaatattttaa
2277263

Query: 668 ttacaaaatagatatgaaatt--acaaacaatagaacaaaatattttaaatttgaaataat
725

|||||
Sbjct: 2277262 ttacaaaatagataaaaaattttacaaacaatagaataaaaatattttaaatttgaaacaat
2277203

Query: 726 acaacaaaaatttttaaatacaaaacaatatggcataaaattaatggtgttg 777

|||||
Sbjct: 2277202 acaacaaaaatttttaaatacaaaataatatgaaataaacttaacgtcgttg 2277151

Score = 170 bits (86), Expect = 6e-40
Identities = 266/324 (82%), Gaps = 4/324 (1%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860

|||||
Sbjct: 30690921 atgcgacacacggaacatcacttttgtaactcaattctcagatatccatttcagtgtgt
30690862

```
Query: 554      tcctttgtatttttattttatttgattattataatacataaatt 596
               |||||  ||  |||  |||||||||||||||||||  ||||  |||||
Sbjct: 2277359 tcctttatagtttcattttatttgattattaaaatatataaatt 2277317
```

Score = 109 bits (55), Expect = 2e-21
Identities = 194/238 (81%), Gaps = 3/238 (1%)
Strand = Plus / Plus

Query: 1180 gactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgccttttt
1239
|||||
Sbjct: 11450298 gactaagaattgtgtgtcacatcaatcaaatacatgaacaatgtgagagttgatctttct
11450357

Query: 1240 ctgtatgtctttcatagccttggttaataacttttgataaaacttcaccaaataatcac
1299
||
Sbjct: 11450358 ctctatgtctt-catagtcttatttagtacttgagtataaatttggtcaaataatcat
11450416

Query: 1300 tcttgcgacttctctcccccttgggtgaacaatgcattacacctagtatagggtgattt
1359
|
Sbjct: 11450417 tattgtgatttctctccctcttgggtgaacaatgtattacacttgatatagattgattt
11450476

Query: 1360 tacca--acacacattgccagattttgtgttttcttgagtaccaaattaattaactca
1415
|||
Sbjct: 11450477 tacgagcgcacatattggaagattttgtattttcttgaataactaaattatttgactca
11450534

Score = 95.6 bits (48), Expect = 3e-17
Identities = 144/176 (81%)
Strand = Plus / Minus

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
1228
|||||
Sbjct: 42905396 attgtctcctagactaagaatcgtgtatcgcgatcaatcgaactcaagaatagtgtgagt
42905337

Query: 1229 tttgcctttttctgtatgtctttcatagccttggttaataacttttgataaaacttcacca
1288
|||||
Sbjct: 42905336 tttgcctttctctatgcacatctttgatgaccttggttagtacttgcgataaaacttggtca
42905277

Query: 1289 aatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacct 1344
 ||| || || | |||| ||||||||| |||| ||||||||| |||||||||
Sbjct: 42905276 gatgcaagcattggtgcagcttctctccctcttttgttgaacaatgtattacacct
42905221

Score = 93.7 bits (47), Expect = 1e-16
Identities = 77/87 (88%)
Strand = Plus / Minus

Query: 1416 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttgtggaatcttcct
1475
 ||||||||||| ||||||||||| ||||||||||| || || ||||| |||
Sbjct: 2276468 gtgtcccatcgccagccaccatcccatgcaagagtccacttttctcgcgaaatcttcct
2276409

Query: 1476 aagctaattaattgtagttcagcttg 1502
 || ||||||||| ||||||| ||||
Sbjct: 2276408 tagtcaattaattgctagttcaacttg 2276382

Score = 89.7 bits (45), Expect = 2e-15
Identities = 108/127 (85%), Gaps = 4/127 (3%)
Strand = Plus / Plus

Query: 995 acttttccagcgtatacacacaagatgtatgtagttcctataactcatgggtgag-catgcttat
1053
 ||||| || ||||||||||| ||||||||| ||||||||||| |||||||||
Sbjct: 30687243 acttttccaacgtatacacacaagatgcatgtagttcctataactcatgggtgagccatgcttac
30687302

Query: 1054 a---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacact
1110
 | | ||||||||||| || ||||| || ||| | ||||||||||| |||||
Sbjct: 30687303 aagcagcaacaacatgagagcaaggcatgttcaatttctagaatttgtcacagtcacacc
30687362

Query: 1111 acctttc 1117
 |||||
Sbjct: 30687363 acctttc 30687369

Score = 89.7 bits (45), Expect = 2e-15
Identities = 114/137 (83%)
Strand = Plus / Minus

Query: 1208 aactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttgtttaat
1267

|||||
Sbjct: 40246666 aactcaagaacattatgagtggttgcctttctaagtgcacatcttgatggccttggttagt
40246607

Query: 1268 acttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttggttg
1327

|||||
Sbjct: 40246606 acttttggtataaaacttgaccatagcaagcattactgcggcttctctccctcttttggtg
40246547

Query: 1328 aacaatgcattacacct 1344
|||||
Sbjct: 40246546 aacaatgcattacacct 40246530

Score = 89.7 bits (45), Expect = 2e-15
Identities = 107/127 (84%), Gaps = 3/127 (2%)
Strand = Plus / Minus

Query: 1014 agatgtatgtagttcctatactcatgggtgagcatgcttataa---acaacaacatgagaa
1070

|||||
Sbjct: 42905552 agatgtatgtagttcctgtattcatgatgagcatgcttacaagcaacaacatgagaa
42905493

Query: 1071 caaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgacc
1130

|||
Sbjct: 42905492 caagacatgtgtaatttctgaattttttataatcacaccacctttcatccagcctgacc
42905433

Query: 1131 atgaaat 1137
|||||
Sbjct: 42905432 gtgaaat 42905426

Score = 87.7 bits (44), Expect = 7e-15
Identities = 68/76 (89%)
Strand = Plus / Minus

Query: 703 aaaatattttaaatttgaaataatacaacaaaaattttaaaatacaaacatattggcataa
762

|||||

Score = 87.7 bits (44), Expect = 7e-15
Identities = 121/146 (82%), Gaps = 3/146 (2%)
Strand = Plus / Minus

```

Query: 1055      ---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
1111            | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 40246821 agcagcaacaacatgagaacaaggcatgtgaaacttctagaatttggccacagtcatacca
40246762

```

Score = 83.8 bits (42), Expect = 1e-13
Identities = 60/66 (90%)
Strand = Plus / Plus

Score = 77.8 bits (39), Expect = 7e-12

Score = 71.9 bits (36), Expect = 4e-10

Identities = 75/88 (85%)
Strand = Plus / Minus

Query: 703 aaaatattttaaatttgaaataataacaacaaaaattttaaaatacaaacaatatggcataa
762
 |||||
Sbjct: 29912719 aaaatattttaaatttgaaataatacaataaaatttcccaaatacaaacaatatgacatac
29912660

Query: 763 aattaatggttggtggcctgagcctacac 790
 | | | |
Sbjct: 29912659 attcaacggttggtggttgagcctacac 29912632

Score = 69.9 bits (35), Expect = 2e-09
Identities = 53/59 (89%)
Strand = Plus / Minus

Query: 1431 gccaccatcccatgcgagagtcacttttcttggtggaatcttcctaagctaattaattg
1489
 |||||
Sbjct: 42905123 gccaccatcccatgcgagagtcatttttcttggtggaatcttgccgagccaattaattg
42905065

Score = 65.9 bits (33), Expect = 3e-08
Identities = 75/89 (84%)
Strand = Plus / Plus

Query: 972 aatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttccta
1031
 |||||
Sbjct: 11449646 aatcatttgtacatggttgagacacttttgcacatatacacatgatgtccgtagttcata
11449705

Query: 1032 tactcatggtgagcatgcttataaacaac 1060
 | | | |
Sbjct: 11449706 tgctcatggtgaacatgcttataaacaac 11449734

Score = 60.0 bits (30), Expect = 2e-06
Identities = 36/38 (94%)
Strand = Plus / Minus

Query: 1424 atcgccagccaccatcccatgcgagagtcacttttct 1461

|||| |
Sbjct: 30690276 atcgtcagccaccatcccagcgagagtcatttttct 30690239

Score = 56.0 bits (28), Expect = 3e-05
Identities = 58/68 (85%)
Strand = Plus / Minus

Query: 1204 atcgaactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttggt
1263

|||| |
Sbjct: 30690515 atcgaactcaagaacagtgtgagtggttgccttttctgtgagtccttgatgggtcttggt
30690456

Query: 1264 taatactt 1271
|| |
Sbjct: 30690455 tagtactt 30690448

Score = 54.0 bits (27), Expect = 1e-04
Identities = 40/43 (93%), Gaps = 1/43 (2%)
Strand = Plus / Plus

Query: 161 gagttttttttatcc-aaataataaaaaaaaaattaattattta 202
|||| |
Sbjct: 47888056 gagttttttttatcccaaataatatgaaaaaattaattattta 47888098

Score = 48.1 bits (24), Expect = 0.006
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 703 aaaatatttaaatttgaaataata 726
|||| |
Sbjct: 43171760 aaaatatttaaatttgaaataata 43171737

Score = 46.1 bits (23), Expect = 0.025
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaaaattg 414
|||| |
Sbjct: 27875272 ttttttttttgttttgttttcaaattg 27875246

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
||||||| | ||||||||||||||||||
Sbjct: 29912736 acaagttcaattgaactaaaatatttaaatt 29912706

Score = 46.1 bits (23), Expect = 0.025
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 703 aaaatatttaaatttgaaataatacaa 729
||||||||||||||||| |||||
Sbjct: 30686941 aaaatatttaaatttgaaacaatacaa 30686967

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
||||||| | ||||||||||||||||||
Sbjct: 30691054 acaagttaaattgaactaaaatatttaaatt 30691024

Score = 46.1 bits (23), Expect = 0.025
Identities = 56/67 (83%)
Strand = Plus / Minus

Query: 842 gatatccattttggtgtgtatacgagaggagacatgacaacctttagaatttcttttcat
901
||||||||||| || | || ||||| ||||| ||| ||| ||||||||||||||| |
Sbjct: 42905724 gatatccatttcggtagggatgcgagaagagacaagacgacccttagaatttcttttctt
42905665

Query: 902 ttttggg 908
|||||
Sbjct: 42905664 gtttggg 42905658

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 ||||||| | |||||||||||||||||||
Sbjct: 42905902 acaagttaaattgaactaaaatatttaaatt 42905872

Score = 46.1 bits (23), Expect = 0.025
Identities = 54/63 (85%), Gaps = 1/63 (1%)
Strand = Plus / Minus

Query: 513 ttatgcatatTTTTatgTTTTatcTTTTttaagagttgaaatcctttgtatTTTTatTTT
572
 ||||||| |||| ||||| ||||||| ||||||| |||| ||||||||||||| |||||
Sbjct: 44753395 ttatgcattTTTT-tgTTTattcattTTTcaagagtaaaaattcctttgtatTTTcattTT
44753337

Query: 573 att 575
 |||
Sbjct: 44753336 att 44753334

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 382 aattgctTTTTTTTTTgTTTTgTTTT 407
 ||||||| |||||||||||||||||||
Sbjct: 2150321 aattgcttGTTTTTTTTgTTTTgTTTT 2150296

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 328 atTTTTTTTTTcaaaaccaagttaagaaat 357
 |||| ||||||| |||||||||||||||||||
Sbjct: 2277564 atttattTTTTTaaaaccaagttaagaaat 2277535

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgttttaa 410
 |||||
Sbjct: 12277961 tttttttttgttttgttttaa 12277940

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 382 aattgctttttttttgtttt 402
 |||||
Sbjct: 1449721 aattgctttttttttgtttt 1449701

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 551 aaatcctttgtatttttattttatt 575
 |||||
Sbjct: 4270495 aaatcctttgtattttcattttatt 4270471

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 409 aaattgtttgatttttattttttt 433
 |||||
Sbjct: 4353726 aaattgttttattttttattttttt 4353750

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 390 tttttttttgttttgttttaa 410
 |||||
Sbjct: 11404841 tttttttttgttttgttttaa 11404821

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 726 acaacaaaaattttaaaatacaaac 750
 |||||
Sbjct: 14934388 acaacaaaaattttaaaataaaaaac 14934412

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 556 ctttgtatttttattttat 576
 |||||
Sbjct: 16719581 ctttgtatttttattttat 16719561

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 409 aaattgtttgtatttttatttttttt 437
 |||||
Sbjct: 16850561 aaattgtttttatttttatttttttt 16850589

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 649 ttgaactaaaatatttaaatt 669
 |||||
Sbjct: 30686934 ttgaactaaaatatttaaatt 30686954

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttta 408

|||||
Sbjct: 34498243 ttttttttttgttttgtttta 34498263

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 741 aaatacaaacaatatggcata 761
|||||
Sbjct: 40247157 aaatacaaacaatatggcata 40247137

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1525 tattttttattataaaaacaaac 1545
|||||
Sbjct: 43899841 tattttttattataaaaacaaac 43899821

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatattttaact 637
|||||
Sbjct: 45073547 ttaaaaaatatatattttaact 45073567

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 264 ttcttaattacattttttta 283
|||||
Sbjct: 621317 ttcttaattacattttttta 621298

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 175 caaataataaaaaaaaaattaatta 198
 |||||
Sbjct: 768207 caaataataaaaataaaaattaatta 768230

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 777877 ttttttttttgttttgtttt 777896

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 317 tcaaaatgttcattttttttttca 340
 |||||
Sbjct: 1796175 tcaaaatgttcattttttgtttca 1796198

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 317 tcaaaatgttcattttttttttca 340
 |||||
Sbjct: 1834845 tcaaaatgttcattttttgtttca 1834868

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 419 tattttttattttttttgtta 438
 |||||
Sbjct: 5587640 tattttttattttttttgtta 5587659

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 715 tttgaaataataacaacaaaa 734
 |||||
Sbjct: 6445453 tttgaaataataacaacaaaa 6445472

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatattt 633
 |||||
Sbjct: 6933531 aaattaaaaaatatatatattt 6933512

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 163 gtgtgtgtgttatccaaataat 182
 |||||
Sbjct: 9080939 gtgtgtgtgttatccaaataat 9080958

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 389 tttgtgtgtgtgtgtgtgttta 408
 |||||
Sbjct: 9770037 tttgtgtgtgtgtgtgtgttta 9770018

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 410 aattgtgtgtgtgtgtgtgttta 433
 |||||
Sbjct: 11640044 aattgtgtgtgtgtgtgtgttta 11640021

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 654 ctaaaaatatttaaattacaaaata 677
 ||||||| |||||||
Sbjct: 11922323 ctaaaaatatctaaattacaaaata 11922300

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 |||||||
Sbjct: 14385672 ttttttttttgttttgtttt 14385653

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||||
Sbjct: 17459719 ttttttttttgttttgtttt 17459738

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaact 637
 ||||||| |||||||
Sbjct: 30125046 aaattaaaaattatatatttaact 30125023

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 175 caaataataaaaaaaaaatta 194

|||||||
Sbjct: 33739885 caaataataaaaaaaaatta 33739866

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 521 attttatgttttatcatttt 540
|||||||
Sbjct: 34031383 attttatgttttatcatttt 34031364

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
|||||||
Sbjct: 35958918 aaattaaaaaatatatattt 35958899

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 411 attgtttgtatttttatttttttt 434
||||||| |||||||
Sbjct: 39294590 attgtttggatttttatttttttt 39294567

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 392 ttttttgttttgttttaaaa 411
|||||||
Sbjct: 42106926 ttttttgttttgttttaaaa 42106907

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 168 ttttatccaaataataaaaaaaaaattaa 195
 ||||| ||||| ||||| |||||
Sbjct: 42354004 ttttatacaaataattaaaaaaaaattaa 42353977

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatatt 632
 ||||| ||||| ||||| |||||
Sbjct: 44416269 gaaattaaaaaatatatatt 44416250

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 707 tattttaaatttgaaataata 726
 ||||| ||||| ||||| |||||
Sbjct: 45256411 tattttaaatttgaaataata 45256430

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 ||||| ||||| ||||| |||||
Sbjct: 45786712 ttttttttttgttttgtttt 45786693

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 437 tattaattgtctatatttgt 456
 ||||| ||||| ||||| |||||
Sbjct: 46094579 tattaattgtctatatttgt 46094598

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 ||||||||||||||||
Sbjct: 47458749 ttttttttttgttttgtttt 47458730

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 260 cgatttcttaattacattttttta 283
 ||||||||||| |||||||||||
Sbjct: 47888223 cgatttcttaactacattttttta 47888246

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 416 ttgtatttttattttttttg 435
 ||||||||||||||||||
Sbjct: 48974534 ttgtatttttattttttttg 48974553

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 415 tttgtatttttatttttttt 434
 ||||||||||||||||||
Sbjct: 49823540 tttgtatttttatttttttt 49823559

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 269 aattacatttttttataca 287
 ||||||||||||||||
Sbjct: 790937 aattacatttttttataca 790919

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 194 aattatattacccaaaaaattatttaca 220
 ||||| ||||| ||||| ||||| |||||
Sbjct: 1046556 aattatataccccaaaaaattatttaca 1046582

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
 ||||| ||||| ||||| ||||| |||||
Sbjct: 1156427 ttttttttttgttttgttt 1156445

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
 ||||| ||||| ||||| ||||| |||||
Sbjct: 1169604 gtttgtatttttatttttt 1169586

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
 ||||| ||||| ||||| ||||| |||||
Sbjct: 1205524 aaattaaaaaatatatatt 1205542

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 415 tttgtatttttattttttt 433

|||||
Sbjct: 1278034 tttgtatttttattttttt 1278052

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
|||||
Sbjct: 1337812 aaattaaaaaatatatatt 1337794

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
|||||
Sbjct: 1888361 aaattaaaaaatatatatt 1888343

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 273 acatttttttatacattta 291
|||||
Sbjct: 1911194 acatttttttatacattta 1911176

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 385 tgcttttttttttgttttgtttt 407
|||||
Sbjct: 3874799 tgcttttttttttgttttctttt 3874777

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1378 gattttgtgttttcttgag 1396
 |||||
Sbjct: 3992523 gattttgtgttttcttgag 3992541

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 414 gtttgtatTTTTATTTTTTTgttatt 440
 |||| |
Sbjct: 4167948 gtttatatTTTTATTTTTTTtatt 4167922

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1475 taagctaattaattgtag 1493
 |||||
Sbjct: 4842072 taagctaattaattgtag 4842054

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatTTTtattataaaa 1540
 |||||
Sbjct: 5314774 aaatatTTTtattataaaa 5314756

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 184 aaaaaaaattaatttttacccaaaaa 210
 ||||| |||||
Sbjct: 5524306 aaaaaaaattaattttttacacaaaaa 5524332

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 416 ttgtatTTTTtattTTTTtt 434
 ||||||||||||||||
Sbjct: 5682342 ttgtatTTTTtattTTTTtt 5682324

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 655 taaaatattttaaattacaaaata 677
 |||||||||||||||| |||||
Sbjct: 6788905 taaaatattttaaattaaaaaata 6788883

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 ||||||||||||||||
Sbjct: 7218248 tttttttttgttttgtttt 7218230

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattatt 583
 |||||||||||||||| |||||
Sbjct: 7754130 tatttttattttattttattatt 7754152

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Plus

Query: 188 aaaattaattatttacccaaaaaattattta 218
 |||| |||||||||||||||| || |||||
Sbjct: 8620697 aaaaataattatttacccaaaatataattta 8620727

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
 |||||
Sbjct: 8857089 ttttttttttgttttgttt 8857107

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 561 tttttttttttatttgattatt 583
 |||||
Sbjct: 10116864 tttttttttttatttaattatt 10116842

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatattttttattataaaa 1540
 |||||
Sbjct: 10439569 aaatattttttattataaaa 10439551

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 414 gtttgattttttttttttggttatt 440
 |||| ||||| |||||
Sbjct: 10740584 gtttttattttaatttttttgggttatt 10740558

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaattaatta 198

```
          ||||| |||||
Sbjct: 11229834 aaataatataaaaaaattaatta 11229812
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

```
Query: 409      aaattgtttgatattttatatttttttg 435
          ||||| |||||
Sbjct: 11449206 aaattttttgtatttttattttatttg 11449232
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 261      gatttcttaattacatttt 279
          |||||
Sbjct: 11678187 gatttcttaattacatttt 11678169
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 177      aataataaaaaaaaaaattaa 195
          |||||
Sbjct: 11690030 aataataaaaaaaaaaattaa 11690012
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

```
Query: 415      tttgtatttttattttttttgttatta 441
          ||||| |||||
Sbjct: 12945299 tttgtatttttattttattttattatta 12945325
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 262 atttcttaattacatTTTTTTTat 284
 |||| |||||||||||||||||
Sbjct: 13671111 atttttaattacatTTTTTTTat 13671089

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 413 tgtttgTatTTTTatTTTTTTtg 435
 |||| |||||||||||||||||
Sbjct: 13732069 tgttttatTTTTatTTTTTTtg 13732047

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacatTTtagaaatt 297
 |||||||||||||||||
Sbjct: 24244876 ttttatacatTTtagaaatt 24244894

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattt 633
 |||||||||||||||||
Sbjct: 27278229 aattaaaaaatatatattt 27278247

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgTatTTTTatTTTTt 432
 |||||||||||||||||
Sbjct: 28000148 gtttgTatTTTTatTTTTt 28000166

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 29149058 tttttttttgttttgtttt 29149040

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 320 aaatgttcattttttttttcaaa 342
 ||||| |||||
Sbjct: 29639717 aaatgttgattttttttttcaaa 29639739

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 724 atacaacaaaaatttttaa 742
 ||||| |||||
Sbjct: 30393481 atacaacaaaaatttttaa 30393463

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1518 tgacaaatatttttattataaaa 1540
 ||||| |||||
Sbjct: 30633078 tgacaaatatttttattataaaa 30633056

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaac 636
 ||||| |||||
Sbjct: 30732324 aaattaaaaaatatttatatttaac 30732302

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 417 tgtatattttatatttttttg 435
 |||||||
Sbjct: 32360564 tgtatattttatatttttttg 32360582

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 423 tttattttttttgttatta 441
 |||||||
Sbjct: 32372923 tttattttttttgttatta 32372941

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 412 ttgtttgatattttatatttttttgta 438
 ||||| |||||
Sbjct: 35084721 ttgttttatattttatattttcttgta 35084695

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 417 tgtatattttatatttttttg 435
 |||||||
Sbjct: 35225692 tgtatattttatatttttttg 35225674

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 724 atacaacaaaaattttaaa 742

|||||
Sbjct: 35434094 atacaacaaaaatttttaa 35434112

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
|||||
Sbjct: 37095916 ttaaaaaatatatatttaa 37095898

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaac 636
||||| |||||
Sbjct: 38111350 aaattaaaaattatatatttaac 38111328

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatttttattttattt 576
|||||
Sbjct: 39058602 ttgtatttttattttattt 39058620

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattatt 583
||||| |||||
Sbjct: 39689472 tatttatattttatttgattatt 39689494

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Minus

Query: 1431 gccaccatcccatgcgagagtccacttttct 1461
||||||| ||||||||| |||||
Sbjct: 40246432 gccaccatccttatgcgagagtccatttttct 40246402

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaatta 198
||||||| ||||||||| |||||
Sbjct: 40289099 aaataattaaaaaaaaaattaatta 40289121

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaattatttta 202
||||||| ||||||||| |||||
Sbjct: 40511684 aataaaaaataattaattatttta 40511662

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
||||||| ||||||||| |||||
Sbjct: 41846044 aaatatattttattataaaa 41846062

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
||||||| ||||||||| |||||
Sbjct: 42755889 aaattaaaaaatatatatt 42755871

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 520 tattttatgttttatcatttttt 542
 |||||||
Sbjct: 43065830 tattttatgttttattatttttt 43065808

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatatttttattataaaa 1540
 |||||||
Sbjct: 43873182 aaatatatttttattataaaa 43873200

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||||
Sbjct: 43873868 ttttttttgttttgtttt 43873850

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 563 tttttattttatttgatta 581
 |||||||
Sbjct: 44081245 tttttattttatttgatta 44081227

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1577 gacaactacaaatcattaa 1595
 |||||||
Sbjct: 45448581 gacaactacaaatcattaa 45448563

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 183 aaaaaaaaaattaattatttacc 205
 |||||
Sbjct: 45691785 aaaaaaaaaattaattgtttacc 45691763

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttgttttgttt 407
 |||||
Sbjct: 46679692 ttttttttgttttgttt 46679674

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 619 aaaaaatatatttaact 637
 |||||
Sbjct: 47053454 aaaaaatatatttaact 47053472

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 391 ttttttgttttgtttta 409
 |||||
Sbjct: 47481899 ttttttgttttgtttta 47481881

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 388 ttttttttgttttgttt 406

```
          |||||
Sbjct: 48017219 ttttttttttgtttggttt 48017201
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

```
Query: 410      aattgtttgtatttttatttttt 432
              |||||
Sbjct: 48335609 aattgtttgtatttttttttttt 48335631
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 420      atttttattttttttggtta 438
              |||||
Sbjct: 48354803 atttttattttttttggtta 48354821
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

```
Query: 404      ttttaaaattgtttgtatttttatttt 430
              ||||| ||||| |||||
Sbjct: 48440869 ttttaaattgtttttatttttatttt 48440895
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 558      ttgtatttttattttattt 576
              |||||
Sbjct: 51130107 ttgtatttttattttattt 51130089
```

>[gb|CM000834.1](#)| Glycine max chromosome 1, whole genome shotgun sequence
Length = 55915595

Score = 236 bits (119), Expect = 1e-59

Identities = 266/315 (84%)
Strand = Plus / Plus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
1613

|||||
Sbjct: 27730620 atacaacaatgaaaaacacacatgatgataaaaaatcattaaatgataaaataacaatca
27730679

Query: 1614 aataatttgaggagggtcttcaaaacttgattcaagggtcattgtatcatcgaggat
1673

|||||
Sbjct: 27730680 aataaattgggagggttttcttcaaaacttgattcaagggtcactacttcattgaggat
27730739

Query: 1674 tcacccaaaccctccaaattcaaagagcttgcagaaactgggtgggtgtgcatatggt
1733

|||||
Sbjct: 27730740 tcatccaaaccctccaaattcaaagagcttgtagaaatgggtgggtgtgacagtgt
27730799

Query: 1734 tatgtgggtgtgtctacggtgataacataaaactcaaggcatgtgaagttgaagagtttc
1793

|
Sbjct: 27730800 tgtgtgggtgtgtctatgatggtaatatataactcaaggcatgtgaggttgagagttga
27730859

Query: 1794 ccaaatatagaaaacatagtaattatttcctcatcatcttgcagcatacatgccctgtac
1853

||
Sbjct: 27730860 ccgaacatagaaaacatagtcattacgtcctcatcataatgcaatatacatgccctgtac
27730919

Query: 1854 tgaaaacaatcacca 1868

||
Sbjct: 27730920 tggccacaatcacca 27730934

Score = 180 bits (91), Expect = 7e-43
Identities = 393/490 (80%), Gaps = 9/490 (1%)
Strand = Plus / Minus

Query: 798 ggaatgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtg
857

|||||
Sbjct: 26540329 ggaatgcgacacatagaacatcgctttgcgtgacccgattctcagatatccattttgggtg
26540270

Query: 858 tgtatacgagaggagacatgacaacctttagaatttcttttcatttttggggtggggcaa
917
 || ||||| ||||| || || ||||| ||||| || ||||| || || ||
Sbjct: 26540269 tggatacgagagtagacaggacgacccttagaatttctttttttatttgggctcgggacag
26540210

Query: 918 attcttggcttgtgacatgggtgaccaacatgcttcattgcacaatttcccaagtaatcat
977
 || | |||| | ||||| || ||||| | ||||| || | |||| | |||| | |||||
Sbjct: 26540209 atcatgggctactgacatggagaccaatacgcttcgcttggtgcaattctccaaacaatcat
26540150

Query: 978 ttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactca
1037
 |||| | |||| | || | |||| | || | ||||| ||||| ||||| ||||| |||||
Sbjct: 26540149 ctgtatatggttagagacactttccaacatatacacaagatgtatgtagttcctataactga
26540090

Query: 1038 tgggtgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaat
1094
 |||||| | ||||| | | ||||| ||||| || | || | || | || | || |
Sbjct: 26540089 tgggtgaggatgcttacaagtagcaacaacatgagaaaaatgcatatgcaatttctagaat
26540030

Query: 1095 ttgtcacagtcacactacctttcatctagcttgaccatgaaatttctcactagttgaatc
1154
 |||||| | ||||| || ||||| || | || | || | || | || | || |
Sbjct: 26540029 ttgtcatagtcacaccacctttcatccaacttaactgtgaaatctccaattgggtcgaacc
26539970

Query: 1155 tctctctccag-ttaattgtctcctagactaagaattgtatgtcgcattaatcgaactca
1213
 |||| | || | || ||||| || ||||| | || | |||| | || |||||
Sbjct: 26539969 tctct---cagatttattgtctcctggaccaagaacatgtggtgcattgattgaactca
26539913

Query: 1214 agaacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataactttt
1273
 |||||| | || | |||| | || | || | || | ||||| ||||| |||||
Sbjct: 26539912 agaacaa--tgagtgtttgactttctttgtgcatcttcgatagccttgtttaataactttc
26539855

Query: 1274 gtataaactt 1283
 |||||||
Sbjct: 26539854 gtataaactt 26539845

Score = 174 bits (88), Expect = 4e-41
Identities = 227/272 (83%), Gaps = 1/272 (0%)
Strand = Plus / Minus

Query: 1608 caatcaaataatttgggggagggggtcttcaaaacttgattcaagggttcattgtatcatcg
1667
||||||| || ||||| ||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4460731 caatcaaacaaattgggggaggggatctttaaactcaattcaagggttcattgcttcatgg
4460672

Query: 1668 aggtattcacccaaaccctccaaattcaaagagcttgcagaaactgggtggtggttgtgca
1727
|| |||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4460671 agatatttatccaaaccctccaaattcaaagagctggcataaattgggtggtggatgtgca
4460612

Query: 1728 tatgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaag
1787
||||| ||||| ||||| ||||| ||| ||| ||||| | ||||| |||||
Sbjct: 4460611 catgtttgtgtgggtgtgtcttgggtggcaatatataactccaagcatgtgagcttgaag
4460552

Query: 1788 agtttcccaaatatagaaaacatagtaattatttcctcatcatcttgcagcatacatgcc
1847
| ||| | || ||||| ||||| ||| || | ||||| ||||| ||| |||||
Sbjct: 4460551 attttgacgaagatagaaaacatagtca-tacgttctcatcatcttgcaacatgcatgcc
4460493

Query: 1848 ctgtactgaaaacaatcaccaacaaatgatac 1879
||||||| ||||| ||||| ||||| |||||
Sbjct: 4460492 ctgtactggccacaatcaccaacaaatgatac 4460461

Score = 168 bits (85), Expect = 2e-39
Identities = 151/173 (87%)
Strand = Plus / Plus

Query: 611 ttgaaattaaaaaatatatatttaactgacaagttgacttgaactaaaatatttaaatta
670
||||| ||||| | |||| |||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 27245417 ttgaaactaaaaaaacatatgtaaccaacaagttgaattgaactaaaatatttaaattg
27245476

Query: 671 caaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaac
730
||||||| |||| | ||||| || | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27245477 caaaatatataaaattaccaataatagaacaaaatatttaaatttgaaacaatagaac
27245536

Query: 731 aaaaatTTTaaaatacaaaacaatatggcataaaaattaatgttgttggcctgag 783
|||| || |||||||||| |||||| |||||| |||| |||||||||| ||||
Sbjct: 27245537 aaaaTTTaaaaaatacaaaagaatatgacataaaacttaacgttgttggcctgag
27245589

Score = 163 bits (82), Expect = 2e-37
Identities = 431/547 (78%), Gaps = 14/547 (2%)
Strand = Plus / Plus

Query: 801 atgCGacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
|||||||||||||||| |||||| | |||||| | ||||||| | |||
Sbjct: 27245629 atgCGacacatggaacatcgctttggttgatctgattctcaaatatccatttcgacgtgg
27245688

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
||| |||||||||| || || || |||||||||| || |||||| | || | |||
Sbjct: 27245689 atatgagaggagacaggacgacccttagaatttcttttcttgtttgggtcgaggtagatt
27245748

Query: 921 cttggcttgTgacatggTgaccaacatgcttcattgcacaatttccaagtaatcatttg
980
||||| |||| ||||| |||| | |||| | |||||| ||| ||| |||
Sbjct: 27245749 attggctcgTgaaatggTggccaatacgcttcgTgcacaatttccaacaatcctttg
27245808

Query: 981 tacatgttatagatacttttCagcgtatacacaagatgtatgtagtTcctatactcatgg
1040
| | || ||| |||| || |||||| |||||| |||||| |||||| |||
Sbjct: 27245809 tgtacattggagacactttccactgtatacacaggatgtatgtagtTcctgtactcatgg
27245868

Query: 1041 tgagcatgcttataaaca---acaacatgagaacaaaacatgtgcattttttgaaatttg
1097
|||||||| || | |||||| |||||| |||||| ||||| |||
Sbjct: 27245869 tgagcatgcttacaacaaggaacaacatgagaacaaggcatgtgcaatttttgga-----
27245924

Query: 1098 tcacagtcacactacctttcatctagcttgaccatgaaatttctcactagttgaatctct
1157
|||||| |||||| || | |||||| |||| | ||||| |||
Sbjct: 27245925 -----gtcacaccacctttcatccagtctaaccatgaaatttccagcggtcgaa--cct
27245977

Query: 1158 ctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaa
1217

Sbjct: 27245978 ctctcgggtttattgtctcctggaccaagaatcgtgtgtcgcacatcgatcgaactcaagaa
27246037

Query: 1218 caatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgtat
1277

Sbjct: 27246038 taatgtgattatttgcctttctgtgtcatcttcaatgggtcttggtttagtacttgcata
27246097

Query: 1278 aaacttcaccaaataatgtaatcactcttgcgacttctctccccctttgggtgaacaatgcat
1337

Sbjct: 27246098 aaatttgaccagatgtaaaaaattgttgtgacttctctccccctttttattgaacaatgcat
27246157

Query: 1338 tacacct 1344
Sbjct: 27246158 tacacct 27246164

Score = 151 bits (76), Expect = 6e-34
Identities = 210/254 (82%), Gaps = 8/254 (3%)
Strand = Plus / Plus

Query: 1568 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttggggag
1627

Sbjct: 32442526 aacacacatgacaacttcaaataattaaataataaaaataaaaatcaattaaattggggggg
32442585

Query: 1628 gggg-----tcttcaaaacttgattcaagggttcattgtatcatcgaggtattcacccaa
1681

Sbjct: 32442586 ggggggggggttctttaaactggattcaagggttgatgcttcatcgaggtattcatccaa
32442645

Query: 1682 accctccaaattcaaagagcttgcagaaactgggtggtgg--ttgtgcatatgtttatgtg
1739

Sbjct: 32442646 accctccaaattcaaagaccttgaagaaattgggtgatggatgtgtgcacatgtttgtgtg
32442705

Query: 1740 ggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtttcccaa
1799

||||| | | | | | | | | | | | | | | | | | | | | | | | | | | |

```

Query:  752      atatggcataaaattaatgttgttgccctgag  783
        ||||| ||||| ||||| ||||| |||||
Sbjct: 26540397 atatgacataaaatttaatatattgttggcgtgag 26540366

```


Query: 1720 gttgtgcataatgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtga
1779

|||||
Sbjct: 47268010 gttatgcatatgtttgtgtgagtgtatccttaatggtaacatataactcaacgcatgtgt
47267951

Query: 1780 agttgaagagtttcccaaataatagaaaacatagtaattatttcctcatcatcttgagca
1839

|||||
Sbjct: 47267950 ggttgtggagtctcctgaataaagaagacatagtgaatgtgtcctcatcatcttacaact
47267891

Query: 1840 tacatgccctgtactgaaaacaatcaccaacaaat 1874

|
Sbjct: 47267890 tgcattgctctatac-aaaaacaatcaccaacaaat 47267857

Score = 127 bits (64), Expect = 8e-27
Identities = 189/228 (82%), Gaps = 2/228 (0%)
Strand = Plus / Plus

Query: 1554 atacaacaatgaacaaca-cacatgacaactacaaatcattaaataatacaattacaatc
1612

|||||
Sbjct: 24895070 atacaacaatgaaaaaaaaacacatgacgactacaaattattaaataataaaaatataaatc
24895129

Query: 1613 aaataatttggggaggggggtc-ttcaaaacttgattcaagggtcattgtatcatcgagggt
1671

|||||
Sbjct: 24895130 aaataaattgggggagttttccttcaaagctcgattcaagggtcattgcttcatcaagggt
24895189

Query: 1672 attcaccctaaacccctccaaattcaaagagcttgagaaactgggtgggtgtgcatatg
1731

|||||
Sbjct: 24895190 attcatcaaaaccttctaaattgaaagagctggcaaaaattgggtgggtggatgtgcacatg
24895249

Query: 1732 tttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtga 1779

||
Sbjct: 24895250 gttgtgtgggtgtgtctgcgggtggaatatataactccaagcatgtga 24895297

Score = 127 bits (64), Expect = 8e-27
Identities = 153/180 (85%), Gaps = 2/180 (1%)
Strand = Plus / Plus

Query: 611 ttgaaattaaaaaatatatatattttaactgacaagttgacttgaactaaaatatttaaatta
670

|||||
Sbjct: 32428812 ttgaaattaaaaaaaacatatgtaaccaacaagttgaattgaactaaaatacttaaatta
32428871

Query: 671 caaaat-agatatgaaattacaaacaatagaacaaaatatttaaatttgaataatacaa
729

|||||
Sbjct: 32428872 aaaaattatatataaaaattaccaacaataaaacagaagatttaagtttgaacaatacaa
32428931

Query: 730 caaaaatttttaaaatacaaaacaatatggcataaaaattaatggttggcctgagcctaca
789

|||||
Sbjct: 32428932 caaaatggttttaaaatacaaagggta-aacataaatttaatggttggcctgagcctaca
32428990

Score = 105 bits (53), Expect = 3e-20
Identities = 256/323 (79%), Gaps = 3/323 (0%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860

|||||
Sbjct: 24871904 atgcgacacacagaacatcacttttagttgactcgggttctcgaatatccattttggtgtgg
24871963

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920

|||||
Sbjct: 24871964 atacgagaggaggcaagatggccctttgaatttcttttcctgtctaggtcggggcaagtc
24872023

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980

|||||
Sbjct: 24872024 attggctcgtgacacagtgaccaatacgcttcggtgcacaatttctccaacaatcctcta
24872083

Query: 981 tacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
1040

|||
Sbjct: 24872084 tatacgttggagacactttttaacatatacacgagatttatgtagttcctgtactcatga
24872143

Query: 1041 tgagcatgcttataaaca---acaacatgagaacaaaacatgtgcattttttgaaatttg
1097

|||| | ||||| || || | ||||| ||||| ||||| |||||
Sbjct: 24872144 tgagtatgcttacaagcagtaataacatgagaacaaggcatgtgcaatctttggaatttg
24872203

Query: 1098 tcacagtcacactacctttcatc 1120
 ||||| |||||
Sbjct: 24872204 ccacagtcacatcacctttcatc 24872226

Score = 101 bits (51), Expect = 5e-19
Identities = 93/106 (87%), Gaps = 2/106 (1%)
Strand = Plus / Plus

Query: 611 ttgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaatta
670

||||| ||||| ||||| |||| | ||||| ||||| ||||| |||||
Sbjct: 29244327 ttgaaataaaaaaaaaaatatatgtaaccaacaagttgaattgaactaaaatgtttaaatta
29244386

Query: 671 caaa--atagatatgaaattacaaacaatagaacaaaatattttaa 714
 |||| | || | |||| | ||||| ||||| |||||
Sbjct: 29244387 caaaatatatatataaaattaccaacaatagaacaaaatgttttaa 29244432

Score = 91.7 bits (46), Expect = 5e-16
Identities = 178/220 (80%), Gaps = 4/220 (1%)
Strand = Plus / Plus

Query: 922 ttggcttgtagcatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgt
981

||||| ||||| || || || | || | ||||| ||||| |||| | |||
Sbjct: 29244644 ttggctcgtagcatgatggccaatatacttcgttgcacaatttctcaaacaatcctctgt
29244703

Query: 982 acatggtatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatggt
1041

| |||| | || | |||| | | ||||| ||||| ||||| |||||
Sbjct: 29244704 atatggtggagacacttttgaacatatacacaggatgtatgtagttctagtactcatggt
29244763

Query: 1042 gagcatgcttata---aacaacaacatgagaacaaaacatgtgc-atTTTTTgaaatttg
1097

| ||||| || | | ||||| ||||| ||||| ||||| |||||
Sbjct: 29244764 taacatgcttacaagtagcaacaacatgagaacaaggcatgtacaattttttggaatttg
29244823

Score = 79.8 bits (40), Expect = 2e-12

Identities = 120/146 (82%), Gaps = 3/146 (2%)
 Strand = Plus / Plus

Query: 995 acttttcagcgtatacacaagatgtatgtagttcctataactcatgggtgagcatgcttata
 1054
 ||||| || ||||||| ||||||||| || || ||||||| || ||||||| |
 Sbjct: 4485325 actttccaacgtatacatgagatgtatgtaatttctgtactcatgatgaacatgcttaca
 4485384

Query: 1055 aa---caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
 1111
 | ||||||||||||||| ||||| | ||||| |||||| |||| |||||| |
 Sbjct: 4485385 actagcaacaacatgagaacaagtcatgtgaaacttttggaatttgccacaatcacacca
 4485444

Query: 1112 cctttcatctagcttgaccatgaaat 1137
 ||||||||| ||| ||||| |||||
 Sbjct: 4485445 cctttcatccagcctgaccgtgaaat 4485470

Score = 79.8 bits (40), Expect = 2e-12
 Identities = 115/139 (82%), Gaps = 7/139 (5%)
 Strand = Plus / Minus

Query: 1005 gtatacacaagatgtatgtagttcctataactcatgggtgagcatgcttataa-----aca
 1058
 ||||||| ||||||||||||||| || || ||||| | ||||||||| || |||
 Sbjct: 27903992 gtatacacgagatgtatgtagtttctgtattcatgataagcatgcttacaagcaacaaca
 27903933

Query: 1059 acaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttca
 1118
 ||||||||||||||| ||||| || || || ||||||| |||| ||||||| |||||||
 Sbjct: 27903932 acaacatgagaacaagacatgttcagtttctggaatttgccacattcacaccacctttca
 27903873

Query: 1119 tctagcttgaccatgaaat 1137
 || ||| || |||||||||
 Sbjct: 27903872 tccagcctg-ccatgaaat 27903855

Score = 77.8 bits (39), Expect = 7e-12
 Identities = 75/87 (86%)
 Strand = Plus / Plus

Query: 703 aaaatatttaaatttgaaataataacaacaaaaattttaaaatacaaaacaatatggcataa
762

|||||
Sbjct: 4485011 aaaatatttaaatttgaaataataacaacaaaaattttacaaatacaaaaaaatatgacttat
4485070

Query: 763 aattaatgttggtggcctgagcctaca 789

|||
Sbjct: 4485071 attcaacgttggtggcctgagcctaca 4485097

Score = 77.8 bits (39), Expect = 7e-12
Identities = 96/115 (83%)
Strand = Plus / Plus

Query: 1764 aactcaaggcatgtgaagttgaagagtttcccaaataatagaaaacatagtaattatttcc
1823

|||||
Sbjct: 27269390 aacttaaggcatgtaagggttgagagttgcctgaacatagaaaacatagtcattacatca
27269449

Query: 1824 tcatcatcttgcagcatacatgccctgtactgaaaacaatcaccaacaaatgata 1878

|||||
Sbjct: 27269450 tcatcatcgtgcagtatgcatgccctgtactagacataatcaccaacaaatgata
27269504

Score = 75.8 bits (38), Expect = 3e-11
Identities = 74/86 (86%)
Strand = Plus / Minus

Query: 705 aatatttaaatttgaaataataacaacaaaaattttaaaatacaaaacaatatggcataaaa
764

|||||
Sbjct: 10985153 aatatttaaatttgaaataataacaacacaattatatagatacaaaacaatatggcatacat
10985094

Query: 765 ttaatgttggtggcctgagcctacac 790

|||
Sbjct: 10985093 tcaacgttggtggcgtgagcctacac 10985068

Score = 65.9 bits (33), Expect = 3e-08
Identities = 60/69 (86%)
Strand = Plus / Plus

```
Query: 554      tcctttgtatttttattttatttgattattataatacata 593
               |||||||
Sbjct: 24871652 tcctttgtatttttatttaatttgattattaaaatacata 24871691
```


Score = 63.9 bits (32), Expect = 1e-07
Identities = 41/44 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatat 682
||||||| ||||||||||||||||||||| ||| |||
Sbjct: 26540551 acaagttgaattgaactaaaatatttaaattacaatatatatat 26540508

Score = 63.9 bits (32), Expect = 1e-07
Identities = 38/40 (95%)
Strand = Plus / Plus

Query: 554 tcctttgtatTTTTATTTTATTTGATTATTATAATACATA 593
||||||| ||||||||||||||||||| |||||
Sbjct: 29244286 tcctttgtatTTTcattttatttgattattaaaatacata 29244325

Score = 61.9 bits (31), Expect = 4e-07
Identities = 124/155 (80%)
Strand = Plus / Plus

Query: 1208 aactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttgtttaat
1267
||||||| ||||| ||||||||| ||||| ||||| || ||||||||| |
Sbjct: 24872310 aactcaagaacagcgtgagtggttgcctttctctgtgcgtcttcaatggccttgtttagt
24872369

Query: 1268 acttttgtataaaacttcaccaaataatgaatacactcttgcgacttctctccccctttgggttg
1327
|||| | ||||| | ||| ||| ||| ||| ||| || ||||| ||||| |||||
Sbjct: 24872370 acttgcttataaaacatggccagatgcaagcattgttgacagttttctccctcttttggtg
24872429

Query: 1328 aacaatgcattacacctagtatagggttgattttac 1362
||||||| ||||| ||| |||||||||
Sbjct: 24872430 aacaatgcattacacctagatatggttgattttac 24872464

Score = 60.0 bits (30), Expect = 2e-06
Identities = 90/109 (82%), Gaps = 2/109 (1%)
Strand = Plus / Plus

Query: 1302 ttgcgacttctctccccctttggttgaacaatgcattacacctagtataggttgatttta
1361
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4485633 ttgcgtcttctctcccttttttgttgaacaatgcagtacaccttacatatgtggatttta
4485692

Query: 1362 ccaacacac--attgccagattttgtgttttcttgagtaccaaattaat 1408
 | | ||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4485693 ctagcacacctattggcagatttattgatttcttgagtacgaaattaat 4485741

Score = 60.0 bits (30), Expect = 2e-06
Identities = 42/46 (91%)
Strand = Plus / Plus

Query: 1007 atacacaagatgtatgtagttcctatactcatggtgagcatgctta 1052
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 24943760 atacacaagatgtatatagttcttgtactcatgatgagcatgctta 24943805

Score = 58.0 bits (29), Expect = 7e-06
Identities = 42/45 (93%), Gaps = 1/45 (2%)
Strand = Plus / Minus

Query: 516 tgcataatatttatgttttatcattttttt-aagagttgaaatccttt 559
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27737368 tgcataatatttatgttttatcatttttttaagagatgaaatccttt 27737324

Score = 58.0 bits (29), Expect = 7e-06
Identities = 56/65 (86%)
Strand = Plus / Plus

Query: 1173 tctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttg
1232
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 32429397 tctcctggactaagaaatttgtgtcacatcaatcaaactcgagaacaatgtgagtggttg
32429456

Query: 1233 ccttt 1237
 |||||
Sbjct: 32429457 ccttt 32429461

Score = 56.0 bits (28), Expect = 3e-05
Identities = 61/72 (84%)
Strand = Plus / Minus

Query: 1416 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttggtggaatcttcct
1475
 |||||
Sbjct: 47270659 gtgtcccatcgctcaccctccatcctatgcgagaatctacttttctcgtagaatcttggt
47270600

Query: 1476 aagctaattaat 1487
 ||||
Sbjct: 47270599 aagccaattaat 47270588

Score = 54.0 bits (27), Expect = 1e-04
Identities = 52/59 (88%), Gaps = 1/59 (1%)
Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtccacttttcttggtggaatcttcctaagctaattaattg
1489
 |||||
Sbjct: 4485781 gccaccatcccatgcgagagtcca-tttttttacggaatcttgccgagctaattaattg
4485838

Score = 54.0 bits (27), Expect = 1e-04
Identities = 45/51 (88%)
Strand = Plus / Minus

Query: 1568 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataa 1618
 |||||
Sbjct: 27899092 aacacacatgaagactacaaatcattaaataataaaaatagtaatcaaataa 27899042

Score = 54.0 bits (27), Expect = 1e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 |||||
Sbjct: 27904330 acaagttgaattgaactaaaatatttaaatt 27904300

Score = 52.0 bits (26), Expect = 4e-04
 Identities = 73/86 (84%), Gaps = 2/86 (2%)
 Strand = Plus / Minus

Query: 1556 acaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaa
 1615
 |||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 10980104 acaaaaatgaaaaacacagatgactcctacaaatcattaaatgataaaatt-tactcaa
 10980046

Query: 1616 taatttgaggaggagg-tcttcaaaa 1640
 ||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 10980045 taaattgggggggggttcttcaaaa 10980020

Score = 52.0 bits (26), Expect = 4e-04
 Identities = 47/54 (87%)
 Strand = Plus / Plus

Query: 1436 catcccatgcgagagtccacttttcttggtgaatcttcctaagctaattaattg 1489
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 27246275 catcccatgcgagagtccacttttcttgcaaaatctcactaagccaattaattg
 27246328

Score = 50.1 bits (25), Expect = 0.002
 Identities = 46/53 (86%)
 Strand = Plus / Plus

Query: 703 aaaatattttaatttgaaataatacaacaaaaattttaaaatacaaaacaatat 755
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 328633 aaaatattttaattttaatttaataatacaaaaattttacaaatacaaaataatat 328685

Score = 50.1 bits (25), Expect = 0.002
 Identities = 34/37 (91%)
 Strand = Plus / Plus

Query: 556 ctttgtatttttattttatttgattattataatacat 592
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 32428773 ctttgtattttcatttatatttgattattaaaatacat 32428809

Score = 50.1 bits (25), Expect = 0.002
 Identities = 49/57 (85%)
 Strand = Plus / Plus

Query: 843 atatccattttggtgtgtatacgagaggagacatgacaaccttttagaatttcttttc 899
 ||||| ||||| || |||| ||| | ||||| ||||| |||||
 Sbjct: 32429066 atatccatttcggtgtgaatttgagaatagataggacaaccttttagaatttcttttc
 32429122

Score = 50.1 bits (25), Expect = 0.002
 Identities = 40/45 (88%)
 Strand = Plus / Minus

Query: 1008 tacacaagatgtatgtagttcctataactcatgggtgagcatgctta 1052
 ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 47271087 tacacaagatctatgtaagccctatattcatgggtgagcatgctta 47271043

Score = 48.1 bits (24), Expect = 0.006
 Identities = 60/72 (83%)
 Strand = Plus / Minus

Query: 1208 aactcaagaacaatgtgagagtttgcccttttctgtatgtctttcatagccttgttta
 1267
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 47270886 aactcaagaacatggtgagagttggcctttcttctgtgcacatctccatagccttgtttatt
 47270827

Query: 1268 acttttgtataa 1279
 | | |||||
 Sbjct: 47270826 atttctgtataa 47270815

Score = 46.1 bits (23), Expect = 0.025
 Identities = 53/63 (84%)
 Strand = Plus / Plus

Query: 813 gaacatcattttggtttacctgattcttggatatccattttggtgtgtatacgagaggag
 872
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 24943566 gaacatcattttggttgactcgattctaagatatccatttcggtgtagatacaagaagag
 24943625

Query: 873 aca 875

|||
Sbjct: 24943626 aca 24943628

Score = 46.1 bits (23), Expect = 0.025
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatatatattta 634
||||||| |||||||||
Sbjct: 44722937 taattgaaattaaaaaatatatattta 44722911

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 392 ttttttgttttgttttaaaattgttt 417
||||| |||||||||
Sbjct: 31971107 tttttttttttgttttaaaattgttt 31971132

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 4 aacgaatgtcgtgtgatatgtg 25
||||||| |||||||||
Sbjct: 38852392 aacgaatgtcgtgtgatatgtg 38852371

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatattta 634
||||||| |||||||||
Sbjct: 51262108 gaaattaaaaaatatatattta 51262087

Score = 42.1 bits (21), Expect = 0.39
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 1585 caaatcattaaataataacaattacaatcaaata 1617
 |||||
Sbjct: 4491816 caaatcattaaataataaaaataccaatcaaata 4491848

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttta 408
 |||||
Sbjct: 7275476 ttttttttttgttttgtttta 7275456

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 386 gcttttttttttgttttgttttaaa 410
 |||| |
Sbjct: 8811121 gcttcttttttttgttttgttttaaa 8811145

Score = 42.1 bits (21), Expect = 0.39
Identities = 72/89 (80%)
Strand = Plus / Minus

Query: 1256 gccttgtttaataacttttgataaaacttcaccaaataatcactcttgcgacttctctc
1315
 |||||
Sbjct: 10984595 gccttgtttagtacttccatataaaacttggccaaatgcaagcattggtgcggcctctctt
10984536

Query: 1316 cccctttggttgaacaatgcattacacct 1344
 || ||||
Sbjct: 10984535 cctcttttggttgaatagtgattacacct 10984507

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 166 ttttttatccaaataataaaaaaaaa 190
||||||| |||||||
Sbjct: 14974335 ttttttatcccaataataaaaaaaaa 14974311

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 578 attattataatacataattaa 598
||||||| |||||||
Sbjct: 16213148 attattataatacataattaa 16213168

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaattaat 196
||||||| |||||||
Sbjct: 17410824 aaataataaaaaaaaaattaat 17410804

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 1388 tttcttgagtaccaaattaattaactcag 1416
||||||| ||||||| |||||
Sbjct: 24944085 tttcttgagtaccgaattaattgactcag 24944113

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 415 tttgtatTTTTATTTTTTTTg 435
||||||| |||||||
Sbjct: 25219841 tttgtatTTTTATTTTTTTTg 25219861

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)

Strand = Plus / Minus

```
Query: 1392      ttgagtaccaaattaattaactcag 1416
                ||||||||||||||||| |||||
Sbjct: 26539738 ttgagtaccaaattaattgactcag 26539714
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 387      cttttttttttgttttgtttt 407
                |||||||||||||||||
Sbjct: 27490276 cttttttttttgttttgtttt 27490296
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 614      aaattaaaaaatatatattta 634
                |||||||||||||||||
Sbjct: 37461008 aaattaaaaaatatatattta 37460988
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 387      cttttttttttgttttgtttt 407
                |||||||||||||||||
Sbjct: 47450958 cttttttttttgttttgtttt 47450938
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 611      ttgaaattaaaaaatatatatttaa 635
                ||||||||||||||||| |||
Sbjct: 48301435 ttgaaattaaaaaatatataattaa 48301411
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 419 tattttttattttttttgttattaat 443
 |||||||
Sbjct: 49176437 tattttttattttttttattattaat 49176461

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 412 ttgtttgtattttttatttttt 432
 |||||||
Sbjct: 49211721 ttgtttgtattttttatttttt 49211701

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatata 628
 |||||||
Sbjct: 52683055 taattgaaattaaaaaatata 52683035

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 415 tttgtattttttatttttttt 434
 |||||||
Sbjct: 4325422 tttgtattttttatttttttt 4325403

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 |||||||
Sbjct: 5170446 tttttttttgttttgtttt 5170427

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaaaa 411
 |||| |
Sbjct: 5473017 ttttgtttttgttttgttttaaaa 5472994

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttatttttttt 434
 ||
Sbjct: 10592522 tttgtatttttatttttttt 10592503

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
 ||
Sbjct: 18584683 aaattaaaaaatatatattt 18584664

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 392 ttttttgttttgttttaaaa 411
 ||
Sbjct: 18643011 ttttttgttttgttttaaaa 18643030

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaattat 199
||||||| |||||
Sbjct: 24920313 aaataataaaacaaaattaattat 24920336

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaa 666
||||||| |||||
Sbjct: 24943417 acaagttgaattgaactaaaataattaa 24943444

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1203 aatcgaactcaagaacaatgtgag 1226
||||||| |||||
Sbjct: 27903791 aatcgaactcaagaacagtgtgag 27903768

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 165 tttttttatccaaataataaaaaa 188
||||||| |||||
Sbjct: 28112000 tttttttatccaaacaataaaaaa 28111977

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 1527 tttttattataaaaaaacaccca 1550
||||||| |||||
Sbjct: 28495085 tttttattataaaaaaacaccca 28495108

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 1078      tgtgcattttttgaaatttg 1097
               |||||
Sbjct: 31862984 tgtgcattttttgaaatttg 31862965
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 521      attttatgttttatcatttttta 544
               |||||
Sbjct: 32181506 attttaggttttatcatttttta 32181483
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 41/48 (85%)
Strand = Plus / Plus

```
Query: 1416      gtgtcccatcgccagccaccatcccatgagagtcacttttcttg 1463
               |||||
Sbjct: 32429650 gtgtcccatcgctcgaccatcatcccatgtgagagtcacttttccttg 32429697
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 1500      ttggccttaaaacacacatgacaa 1523
               |||||
Sbjct: 32442516 ttggcattaaaacacacatgacaa 32442539
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

```
Query: 389      ttttttttgttttgttttaaaattggt 416
               |||||
Sbjct: 37426748 ttttttttgttttttttaacattggt 37426721
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 172 atccaaataataaaaaaaaaa 191
 |||||
Sbjct: 40265519 atccaaataataaaaaaaaaa 40265500

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 388 tttttttttgttttgttttaaaattgt 415
 |||||
Sbjct: 46799029 tttttttttgtttttttttataattgt 46799056

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 892 ttcttttcatttttgggttg 911
 |||||
Sbjct: 49207965 ttcttttcatttttgggttg 49207984

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 558 ttgtatttttattttatttgatta 581
 |||||
Sbjct: 49673629 ttgtatttttattttattttatta 49673606

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 183 aaaaaaaaaattaattattta 202
 |||||
Sbjct: 51565113 aaaaaaaaaaattaattattta 51565094

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 419 tattttttatttttttttgta 438
 |||||||
Sbjct: 52107288 tattttttatttttttttgta 52107307

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaact 637
 ||||||| |||||||
Sbjct: 53939024 aaattaaaaattatatatttaact 53939001

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 656 aaaatattttaaattacaaaataga 679
 ||||||| |||||||
Sbjct: 55068157 aaaatattttaaattaaaaaataga 55068134

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatttaa 635
 |||||||
Sbjct: 71923 ttaaaaaatatatatttaa 71941

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 421 tttttatttttttttgttat 439
|||||||
Sbjct: 239150 tttttatttttttttgttat 239132

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 886 tagaatttcttttcatttt 904
|||||||
Sbjct: 362898 tagaatttcttttcatttt 362880

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatttaa 635
|||||||
Sbjct: 476890 ttaaaaaatatatatttaa 476908

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
|||||||
Sbjct: 971542 aaatatattttattataaaa 971524

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatat 631
|||||||
Sbjct: 1350198 gaaattaaaaaatatatat 1350180

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Minus

```
Query: 617      ttaaaaaaatatatatttaa 635
             ||||||||||||||||
Sbjct: 2454216 ttaaaaaaatatatatttaa 2454198
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 414      gtttgtatttttatttttt 432
             ||||||||||||||||
Sbjct: 2978048 gtttgtatttttatttttt 2978030
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 414      gtttgtatttttatttttt 432
             ||||||||||||||||
Sbjct: 3271627 gtttgtatttttatttttt 3271609
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 391      tttttttgttttgtttta 409
             ||||||||||||||||
Sbjct: 3286932 tttttttgttttgtttta 3286950
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 414      gtttgtatttttatttttt 432
             ||||||||||||||||
Sbjct: 3398696 gtttgtatttttatttttt 3398678
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 562 atttttattttatttgatt 580
|||||||
Sbjct: 3559971 atttttattttatttgatt 3559989

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 164 ttttttttatccaaataataaaa 186
|||||||
Sbjct: 4261735 ttttttttatccaaattataaaa 4261757

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 422 ttttattttttttggtatt 440
|||||||
Sbjct: 4429895 ttttattttttttggtatt 4429877

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatatttaact 637
|||||||
Sbjct: 4569374 aattaaaaattatatatttaact 4569352

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacathtagaaatt 297
|||||||
Sbjct: 5484918 ttttatacathtagaaatt 5484936

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 6705754 aaatatattttattataaaa 6705736

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgtttta 408
 |||||
Sbjct: 6735902 ttttttttgttttgtttta 6735920

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 325 ttcattttttttttcaaaa 343
 |||||
Sbjct: 7500996 ttcattttttttttcaaaa 7501014

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 408 aaaattgtttgatttttattttttt 434
 ||||| | |||||
Sbjct: 7622890 aaaattgtttgatttttattttttt 7622916

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 416 ttgtatTTTTtatttttttt 434
 |||||
Sbjct: 8470540 ttgtatTTTTtatttttttt 8470558

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 9422829 tttttttttgttttgtttt 9422811

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 165 tttttttatccaaataataaaaa 187
 |||||
Sbjct: 9618192 tttttttatcgaaataataaaaa 9618170

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 9674955 tttttttttgttttgtttt 9674937

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 841 ggatatccattttggtgtgtatacgag 867
 |||||
Sbjct: 10984995 ggatatccatttcggtgtggatacgag 10984969

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

```
Query: 388      ttttttttttgttttgttt 406
                |||||
Sbjct: 11802948 ttttttttttgttttgttt 11802966
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 325      ttcattttttttttcaaaa 343
                |||||
Sbjct: 12412095 ttcattttttttttcaaaa 12412113
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 384      ttgcttttttttttgtttt 402
                |||||
Sbjct: 14926083 ttgcttttttttttgtttt 14926065
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 388      ttttttttttgttttgttt 406
                |||||
Sbjct: 24201336 ttttttttttgttttgttt 24201354
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 554      tcctttgtatttttatttt 572
                |||||
Sbjct: 24823948 tcctttgtatttttatttt 24823966
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 391 tttttttgttttgttttaaaatt 413
 ||||| |||||
Sbjct: 25560340 tttttttcttttgttttaaaatt 25560362

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 177 aataataaaaaaaaaattaattat 199
 ||||| |||||
Sbjct: 25920071 aataatataaaaaaattaattat 25920093

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1861 aatcaccaacaaatgatac 1879
 |||||
Sbjct: 27898840 aatcaccaacaaatgatac 27898822

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 421 tttttattttttttgttat 439
 |||||
Sbjct: 37711995 tttttattttttttgttat 37711977

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 655 taaaatatttaaattacaaaata 677
 ||||| |||||
Sbjct: 38732061 taaaatatataaattacaaaata 38732083

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 279 ttttatacatatttagaaatt 297
 |||||
Sbjct: 40994530 ttttatacatatttagaaatt 40994512

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 41076076 aaatatattttattataaaa 41076058

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 325 ttcatttttttttttcaaaa 343
 |||||
Sbjct: 42006374 ttcatttttttttttcaaaa 42006392

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 42364861 ttaaaaaatatatatttaa 42364879

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 593 aattaaacaacaacttaat 611
 |||||||
Sbjct: 43280085 aattaaacaacaacttaat 43280103

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 578 attattataatacataatt 596
 |||||||
Sbjct: 43416441 attattataatacataatt 43416423

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 183 aaaaaaaaaattaattatatt 201
 |||||||
Sbjct: 44725245 aaaaaaaaaaattaattatatt 44725263

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaaaatatatatttaact 637
 ||||||| ||||||| |||||
Sbjct: 45624093 ttgaaattgaaaaaatatataattaact 45624067

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaaa 1540
 |||||||
Sbjct: 45742432 aaatatattttattataaaaa 45742414

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)

Strand = Plus / Plus

```
Query: 417      tgtatTTTTatTTTTTTtgTtat 439
              |||| |||||||||||||||||
Sbjct: 46972546 tgtaattttatTTTTTTtgTtat 46972568
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

```
Query: 561      tatttttattttatttgattatt 583
              ||||||||||||||||| |||||
Sbjct: 47080564 tatttttattttattttattatt 47080586
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 615      aattaaaaaatatatattt 633
              |||||||||||||||||
Sbjct: 48756406 aattaaaaaatatatattt 48756388
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 389      tttttttttgttttgTTTT 407
              |||||||||||||||||
Sbjct: 50144819 tttttttttgttttgTTTT 50144801
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 1522     aaatatTTTTattataaaaa 1540
              |||||||||||||||||
Sbjct: 50540522 aaatatTTTTattataaaaa 50540540
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 406 ttaaaattgtttgtatttt 424
 |||||
Sbjct: 50704742 ttaaaattgtttgtatttt 50704760

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 184 aaaaaaaattaattattta 202
 |||||
Sbjct: 50724712 aaaaaaaattaattattta 50724694

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 1339 acacctagtataggttgattttaccaa 1365
 ||||| |||| |||||
Sbjct: 51215736 acacctactatatgttgattttaccaa 51215710

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 616 attaaaaaatatatattta 634
 |||||
Sbjct: 51673281 attaaaaaatatatattta 51673299

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 264 ttcttaattacattttttt 282
 |||||
Sbjct: 51747648 ttcttaattacattttttt 51747666

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 412 ttgtttgtatTTTTATTTTTTTtgTta 438
 ||||| ||||| ||||| |||||
Sbjct: 52146281 ttgtttctatTTTTgtTTTTTTtgTta 52146307

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 578 attattataatacataatt 596
 ||||| ||||| ||||| |||||
Sbjct: 52355436 attattataatacataatt 52355454

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttTgtatTTTTATTTTT 432
 ||||| ||||| ||||| |||||
Sbjct: 53316705 gtttTgtatTTTTATTTTT 53316687

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatttttattataaaa 1540
 ||||| ||||| ||||| |||||
Sbjct: 54253771 aaatatttttattataaaa 54253789

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 609 aattgaaattaaaaaatatatat 631
 ||||||| |||||||||||||
 Sbjct: 54323092 aattgaaagtaaaaaaatatatat 54323114

Score = 38.2 bits (19), Expect = 6.1
 Identities = 19/19 (100%)
 Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 ||||||| |||||||||||||
 Sbjct: 54436685 aaatatattttattataaaa 54436703

Score = 38.2 bits (19), Expect = 6.1
 Identities = 22/23 (95%)
 Strand = Plus / Plus

Query: 412 ttgtttgtatttttatttttttt 434
 ||||| |||||||||||||
 Sbjct: 54511707 ttgttttatttttatttttttt 54511729

Score = 38.2 bits (19), Expect = 6.1
 Identities = 19/19 (100%)
 Strand = Plus / Minus

Query: 708 atttaaatttgaaataata 726
 ||||||| |||||||||||||
 Sbjct: 55483682 atttaaatttgaaataata 55483664

>[gb|CM000842.1](#) Glycine max chromosome 9, whole genome shotgun sequence
 Length = 46843750

Score = 224 bits (113), Expect = 5e-56
 Identities = 241/276 (87%), Gaps = 7/276 (2%)
 Strand = Plus / Minus

Query: 518 catattttatgttttatcatttttt-aagagttgaaatcctttgtatttttattttattt
 576
 ||||||| ||||||||||||| ||||||||||||| ||||||| | |||||||
 Sbjct: 20796505 catatttttggttttatcattttttcaagagttgaaatccttttatattttcaattttattt
 20796446

Query: 577 gattattataatacataattaacaacaacttaattgaaattaaaaaatat-atatttaa
635

Sbjct: 20796445 gattaataaaatgcataataaatcaacaacttaattgaaattaaaaaaaaacatatatttaa
20796386

Query: 636 -ctgacaagttgac-ttgaactaaaatatTTTaaattacaaaatagatatgaaattacaaa
693

Sbjct: 20796385 tcaaacaagttgaaatttaaataaa-tatgtaaattacaaaatagatatataaaattacaaa
20796327

Query: 694 caatagaacaaaatat--ttaaatttgaaataataacaacaaaaattttaaaatacaaaca
751

Sbjct: 20796326 aaatagaaaaaaatatattttaagtttgaaacaatacaacaaaatttttaaatacaaaaca
20796267

Query: 752 atatggcataaaaattaatgttgttggcctgagccta 787

[illegible]

Score = 210 bits (106), Expect = 7e-52
Identities = 166/185 (89%), Gaps = 2/185 (1%)
Strand = Plus / Plus

Query: 608 taattgaaattaaaaaatata--tatttaactgacaagttgacttgaactaaaatat

Sbjct: 2409230 taattgaaattaaaaaaaaaacatatatttaaccaaaaagttgaattgaactaaaatatatta
2409289

Query: 666 aattacaaaatagatatgaaattacaaacaatagaacaaaaatatttaaatttgaaataat
725

Sbjct: 2409290 aattacaaaatatataaaaattacaaacaatagaacaaaatatttaaatttgaaacaat
2409349

Query: 726 acaacaaaaatttttaaatacaaacatatggcataaaattaatgttgttggcctgagcc
785

Sbjct: 2409350 acaacaaaaattttaaaatacaaagaatatgatataaatttaacattggttgcttgagct
2409409

Query: 786 tacac 790

Sbjct: 2409410 ||||| tacac 2409414

Score = 194 bits (98), Expect = 4e-47
 Identities = 149/166 (89%)
 Strand = Plus / Minus

Query: 620 aaaaatatatatattaactgacaagttgacttgaactaaaatatttaaattacaaaataga
 679
 Sbjct: 25180141 aaaaaaatatatattaaccaacaagttgaattgaactaaaatatttaaattataaaataga
 25180082

Query: 680 tatgaaattacaaacaatagaacaaaaatatttaaatttgaaataatacaacaaaaatttt
 739
 Sbjct: 25180081 tataaaattacaaaaaatagaataaaatatttaaatttgaaacaatacaacaaaaatttt
 25180022

Query: 740 aaaatacaaaacaatatggcataaaaattaatgttgttggcctgagcc 785
 Sbjct: 25180021 aaaatagaaagaatatgtcataaacttaacgttgttgacttgagcc 25179976

Score = 184 bits (93), Expect = 4e-44
 Identities = 173/198 (87%), Gaps = 5/198 (2%)
 Strand = Plus / Minus

Query: 427 ttttttttgttattaattgtctatatatttgtgttctgtttaaattgaaaacaatattattt
 486
 Sbjct: 40165501 ttttttgtgttattaattgtctatatatttatatgttgtttaaactgaaaataatattattt
 40165442

Query: 487 ttcatatgttgttaattcttaatttcttatgcatattttatgttttatcattttttaaga
 546
 Sbjct: 40165441 tacatatgttgttg----ttaatctttt-tgcatattttatgttttatcattttttaaga
 40165387

Query: 547 gttgaaatcctttgtatttttattttatttgattattataatacataattaacaacaac
 606
 Sbjct: 40165386 gttaaaaacttttatatttttattttatttgattatgaaaatacataattaatcaaaaaa
 40165327

Query: 607 ttaattgaaattaaaaaa 624

|||||
Sbjct: 40165326 ttaattgaaattaaaaaa 40165309

Score = 176 bits (89), Expect = 1e-41
Identities = 362/449 (80%), Gaps = 8/449 (1%)
Strand = Plus / Minus

Query: 972 aatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttccta
1031

|||||
Sbjct: 20796058 aatcatttgtacacgttg-agacactttccaacatatacacatgatgtatgtaattccta
20796000

Query: 1032 tactcatggtgagcatgcttataaacaacaaca---tgagaacaaaacatgtgcattttt
1088

|||||
Sbjct: 20795999 tactcgtggtgagtatgcttataagcaacaacaatatgaaaataagacatgtgcattttt
20795940

Query: 1089 tgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaatttctcactagt
1148

|
Sbjct: 20795939 tataatatgtcacagtcacatcactttttacccagtctaatacatgaaatttctaacgggt
20795880

Query: 1149 tgaatctctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcga
1208

||
Sbjct: 20795879 caaacctctatct--agttaattgtcttaaagactaagaattatatgttgtaaagatcaa
20795822

Query: 1209 actcaagaacaatgtgagagtttgccctttttctgtatgtctttcatagccttggttaata
1268

|||||
Sbjct: 20795821 actcaagaataatgtgagagtttgctctttttctatgcgttttccatagccttgctcgtga
20795762

Query: 1269 cttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttgggtga
1328

|||
Sbjct: 20795761 cttgcatataaaacttggccatatgtaatacattggtgtgacttctctccctttttgggtga
20795702

Query: 1329 acaatgcattacacctagtaggttgatgtttaccacaa--cacacattgccagattttgtg
1386

|||||

Sbjct: 20795701 acaatgtattacatcttatatatgttgattttaccaatgcacatatggaaaatttcgta
20795642

Query: 1387 ttttcttgagtaccaaattaattaactca 1415
||||||| |||| ||||||||| |||||
Sbjct: 20795641 ttttcttaagtatcaaattaattgactca 20795613

Score = 174 bits (88), Expect = 4e-41
Identities = 160/183 (87%), Gaps = 2/183 (1%)
Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa
667
||||||| |||| | | ||||||||| ||||||||| ||||||||| |||||||||
Sbjct: 1463562 taattgaaataaaaaataaacatatttaaccaacaagttgaattgaactaaaatattttaa
1463503

Query: 668 ttacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataatac
727
|| ||||||||| ||||||||| ||||||||| ||||||||| ||||||||| |||||
Sbjct: 1463502 ttgtaaaatagatatataaattacaaacaataaaacaaaataatttaaatttgaaacaatac
1463443

Query: 728 aacaaaaattttaaaatacaaacaatatggcataaaattaatgttggtggcctgagccta
787
||||| |||| ||||||||| ||||||||| | ||| |||| ||||||||| |||||||||
Sbjct: 1463442 aacaaagctttttaaaatacaaacaatatg--acaaacttaacattggtggcctgagccta
1463385

Query: 788 cac 790
|||
Sbjct: 1463384 cac 1463382

Score = 159 bits (80), Expect = 2e-36
Identities = 277/342 (80%), Gaps = 3/342 (0%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttgatatccattttggtgtgt
860
||||||| |||| || ||||||||| ||||| ||||||||| |||| | |||||
Sbjct: 1463349 atgcgacacatgaaatattgttttggtttactcaattctcgatatcaatttcgatgtgt
1463290

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttggggtggggcaaatt
920

|||||
Sbjct: 1463289 atacgagaggagacatgatgacctttagaatttcttttcttctcttagtcagtgcacaaatt
1463230

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaaatttcccaagtaatcatttg
980

|||| |
Sbjct: 1463229 cttgactcatgacacggttaaccaatatgctatgttgcgtaattctctaacaacatcatttg
1463170

Query: 981 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgg
1040

|| |
Sbjct: 1463169 tatacgttggagacactttccaacgtatacataggatgtatgtattccatatactcatgg
1463110

Query: 1041 tgagcatgcttataaac---aacaacatgagaacaaaacatgtgcattttttgaaatttg
1097

|||||
Sbjct: 1463109 tgagcatgcttacaagcagtaacaacaagagaacaagacatgtgcactttttggaatttt
1463050

Query: 1098 tcacagtcacactacctttcatctagcttgaccatgaaattt 1139

||||
Sbjct: 1463049 tcacattcacaccacttttgatccagcttgatcatgaaattt 1463008

Score = 151 bits (76), Expect = 6e-34
Identities = 236/290 (81%), Gaps = 7/290 (2%)
Strand = Plus / Minus

Query: 1549 cagtgtatacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattac
1608

||||
Sbjct: 12595320 cagtaatacaacaatgaaaaacatacatgatgactacaaatcattaaataataaaatagc
12595261

Query: 1609 aatcaaataatttggggaggggg-----tcttcaaaacttgattcaagggtcattgta
1661

|||||
Sbjct: 12595260 aatcaaataaattggtggggggggggggttcttcaaaactcgattcaagattcattgtt
12595201

Query: 1662 tcatcgaggtattcacccaaaccctccaaattcaaagagcttgcagaaactggtgggtggt
1721

||||

Sbjct: 12595200 tcattgaggtgttaataataaatcctccaaattcaaagaccttgcagaaattggtggtgga
12595141

Query: 1722 tgtgcatatgtttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaag
1781

|||| | ||||| ||||| ||| | ||| ||| ||| ||||| ||||| |
Sbjct: 12595140 tgtgtacatgtttgtgtgggtttgtttgtagtggtaatatataacttaaggcttgtgagg
12595081

Query: 1782 ttgaagagtttcccaaatatagaaaacatagtaattatttcctcatcatc 1831
||| | ||||| || ||||| ||||| ||| | ||||| |||||

Sbjct: 12595080 ttggaaagtttcctgaacatagaaaacatagtcataacgtcctcatcatc 12595031

Score = 139 bits (70), Expect = 2e-30
Identities = 166/198 (83%)
Strand = Plus / Minus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224

|||||| |||| | ||||| ||||| | ||||| || || ||||| ||||| |||||
Sbjct: 1462984 gttaattatctcttggaactaagaattatgtgtcgcacgcattgaactcaagaacaatgtg
1462925

Query: 1225 agagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgtataaaacttc
1284

| ||||| |||| | ||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1462924 aaagtttgtctttctttgtgcgtctttcatagttttgtttagtacttgtgtataaaacttg
1462865

Query: 1285 accaaatgtaatcactcttgcgacttctctcccccttttggttgaacaatgcattacacct
1344

| ||||| |||| | ||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1462864 gtcgaatgtaatcattgctacaatttctctcccccttttggttgaacaatgcattacacct
1462805

Query: 1345 agtatagggtgattttac 1362

|| ||||| ||||| |||||
Sbjct: 1462804 tgtgtagggtgattttac 1462787

Score = 127 bits (64), Expect = 8e-27
Identities = 143/167 (85%), Gaps = 3/167 (1%)
Strand = Plus / Minus

Query: 1252 catagccttgtttaataacttttgtataaaacttcaccaaagtgaatcactct-tgcgactt
1310

|||||
Sbjct: 25178656 catagccttgtttagtacttgtgtataaaacttgatcagatgtaatcatttgctacgactt
25178597

Query: 1311 ctctccccctttgggtgaacaatgcattacacctagtaggttgattttacca--acac
1368

|||||
Sbjct: 25178596 ctctccctatttgggtgaacaatgcattacaccttgtaggttgattttaccagtgcac
25178537

Query: 1369 acattgccagattttgtgttttcttgagtaccaaattaattaactca 1415

||||
Sbjct: 25178536 ttattgagatattttgtgttttattgagtaccgaattaattgactca 25178490

Score = 125 bits (63), Expect = 3e-26
Identities = 128/149 (85%), Gaps = 3/149 (2%)
Strand = Plus / Minus

Query: 995 acttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata
1054

|||||
Sbjct: 40165052 acttttcaacatatagacaagatgtatatagttttataactcatggtgagcatgcttaca
40164993

Query: 1055 aaca---acaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
1111

||
Sbjct: 40164992 agcagtaacaacatgagaacaagacatgtgcactttttggaatttatcacaggcacacca
40164933

Query: 1112 cctttcatctagcttgaccatgaaatttc 1140

|||||
Sbjct: 40164932 tatttcacatctagtctgaccatgaaatttc 40164904

Score = 117 bits (59), Expect = 8e-24
Identities = 115/132 (87%), Gaps = 5/132 (3%)
Strand = Plus / Minus

Query: 428 ttttttggttattaattgtctatatatttgggttctgttttaaattgaaaacaatattatttt
487

|||||
Sbjct: 25180631 tttttgtgttattaattacatatatttatgttttgggtttaaattgaaaataatattacttt
25180572

Query: 488 tcatatggttgtaattcctaatttcttatgcatattttatgttttatcattttttaagag
547

||||||| || ||||| || | ||||| ||||| ||||| |||||
Sbjct: 25180571 gcatatggtg----ttgtaattt-tttccatatttttgttttatcattttttaagag
25180517

Query: 548 ttgaaatccttt 559

||||||| |||||
Sbjct: 25180516 ttgaaatccttt 25180505

Score = 107 bits (54), Expect = 8e-21
Identities = 205/253 (81%), Gaps = 3/253 (1%)
Strand = Plus / Minus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224

||||| ||| | ||||| | ||| || ||||| ||||| ||||| |||||
Sbjct: 40164881 gttaattatctcttggaactaagaatcgcggtgtcacatcgatcgaactcaagaacaatgtg
40164822

Query: 1225 agagtttgcctttttctgtatgtctttcatagccttgtttaatacttttgataaaacttc
1284

|||| | |||| | || |||| ||||| ||||| || || ||||| ||
Sbjct: 40164821 agagcctttctttcttgtgtgtcattcatagtcttgtttagtaattgtgtataaatttg
40164762

Query: 1285 accaaatgtaatcactcttgcgacttctctccccctttgggtgaacaatgcattacacct
1344

| ||||| || | || |||| || | || |||| |||| | || |||||
Sbjct: 40164761 gctaaatgtaatcggtgtgtgacttatcttcctcttgattgaataatgtattacacct
40164702

Query: 1345 agtatagggttgattttacca--acacacattgccagattttgtgttttcttgagtaccaa
1402

||||||| ||||| | || |||| || ||||| ||||| || |||||
Sbjct: 40164701 tatatagggttgattttactagcaaacatattgacaaattttgtgtttt-tttagtaccaa
40164643

Query: 1403 attaattaactca 1415

||||| |||||
Sbjct: 40164642 attaattgactca 40164630

Score = 101 bits (51), Expect = 5e-19

Identities = 67/71 (94%), Gaps = 1/71 (1%)
Strand = Plus / Minus

Query: 527 tggtttatcatttttttaa-gagttgaaatcctttgtatttttattttatttgattattat
585
 |||||
Sbjct: 1463628 tggtttatcattttatttaaagagttgaaatcctttgtatttttattttattttattattaa
1463569

Query: 586 aatacataatt 596
 |||||
Sbjct: 1463568 aatacataatt 1463558

Score = 95.6 bits (48), Expect = 3e-17
Identities = 69/76 (90%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaacaata
698
 |||||
Sbjct: 8224770 acaagttgaattgaactaaaatgttttaaattacaaaatatatataaaaattaccaacaata
8224829

Query: 699 gaacaaaatattttaa 714
 ||| |||||
Sbjct: 8224830 gaataaaatgttttaa 8224845

Score = 95.6 bits (48), Expect = 3e-17
Identities = 84/96 (87%)
Strand = Plus / Minus

Query: 806 acacatggaacatcattttggtttacctgattccttgatatccattttggtgtgtatacg
865
 |||||
Sbjct: 20796190 acacatgaaacattgttttggttgaccagattctcaaatatccatttcggtatgtatacg
20796131

Query: 866 agaggagacatgacaacctttagaatttcttttcat 901
 |||||
Sbjct: 20796130 agaggagacatgacaacctttagaattccttatcat 20796095

Score = 95.6 bits (48), Expect = 3e-17

Identities = 263/334 (78%), Gaps = 3/334 (0%)
Strand = Plus / Minus

Query: 807 cacaatggaacatcatttttggtttacctgattcttggatatccattttggtgtgtatacga
866

||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 27534813 cacaatggaacacaacttttggttgacccaattcttggatatccatttcggtgtggatacaa
27534754

Query: 867 gaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattcttggc
926

||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 27534753 gaggagacaggacgaaccttagtacttcttttcttttctgggtcggggcatatcattggc
27534694

Query: 927 ttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtagatg
986

||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 27534693 gcatgacatggtggcaaataggcttcattgtgcaattctctaacaatcttgtgtatag
27534634

Query: 987 ttatagatactttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagca
1046

|| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 27534633 ttgaagacactttccaacatatacacaagacttatgtagtttgtgtactcataatgagca
27534574

Query: 1047 tgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacag
1103

||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 27534573 tgcttacaagcagcaacaacataagaacaagacatgtgtaatttttggaaatttgccactg
27534514

Query: 1104 tcacactacctttcatctagcttgaccatgaaat 1137

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 27534513 tgataccacctttcatccagtttgatcgtgaaat 27534480

Score = 93.7 bits (47), Expect = 1e-16
Identities = 77/87 (88%)
Strand = Plus / Minus

Query: 703 aaaatattttaaatttgaaataataacaacaaaaattttaaaatacaaacatattggcataa
762

||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 27534936 aaaatattttaaatttgaaattaataacaacaaaaattttataactacaacatattgatatac
27534877

Query: 763 aattaatgttggtggcctgagcctaca 789
 | | ||||||||| |||||||||
Sbjct: 27534876 attcaatgttggtggcctgagcctaca 27534850

Score = 89.7 bits (45), Expect = 2e-15
Identities = 60/65 (92%)
Strand = Plus / Minus

Query: 1434 accatcccatgcgagagtccacttttcttggtgaatcttcctaagctaattaattgtag
1493
 ||||||| ||||||||| ||||||| ||||||| |||||||||
Sbjct: 20795577 accatcccatgtaagagtccacttttcttgcggaatctccctaagccaattaattgtag
20795518

Query: 1494 ttcag 1498
 |||||
Sbjct: 20795517 ttcag 20795513

Score = 89.7 bits (45), Expect = 2e-15
Identities = 213/265 (80%), Gaps = 3/265 (1%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
 ||||||| ||||||||| ||||||| || | ||| |||| | ||||||||| |||||||
Sbjct: 25179939 atgcgactcatggaacattattttgattgagctgggttctcagatatccatttcggtgtgt
25179880

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
 |||| | |||| | || | | ||||||||| ||||||| | |||| | ||| | |||
Sbjct: 25179879 atacaagagggga-aagatgacctttagaatttcttttcttagctgggctagggtagatt
25179821

Query: 921 cttggttggtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980
 ||||||||||| |||||||| | ||||| ||| | |||| | || | |||| | |
Sbjct: 25179820 cttggcttggtgacacagtgaccaatacgcttcttctgtgtaattccctaacaatcctcta
25179761

Query: 981 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttccta-tactcatg
1039
 || | ||| ||| |||| | | | |||| | ||||||||| || |||||||

Sbjct: 25179760 tatacgttggagacactttccaacatatatacaagatgtatgtagttcttattactca-c
25179702

Query: 1040 gtgagcatgcttataaacaacaaca 1064
|||||||
Sbjct: 25179701 gtgagcatgcttacaacaacaaca 25179677

Score = 87.7 bits (44), Expect = 7e-15
Identities = 206/260 (79%)
Strand = Plus / Minus

Query: 805 gacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatac
864
|||||
Sbjct: 6355822 gacacacgaaacatcgctttggttgacctggttctcggatatcagtttcggtgtggatac
6355763

Query: 865 gagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattcttg
924
|||||||
Sbjct: 6355762 gagaggaggcaggatgacctttagtacttcttttcttttattggctgaggcagatcattg
6355703

Query: 925 gcttgatgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtaca
984
||
Sbjct: 6355702 gttcgtgacatggtggccaatagggttcggtgcacaattctccaaacaatcctttatata
6355643

Query: 985 tggtatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgggtgag
1044
|||
Sbjct: 6355642 cggttgagacactttctaacgtatacacgagatgtacgtagtttctgtactcatgatgag
6355583

Query: 1045 catgcttataaacaacaaca 1064
|||||||
Sbjct: 6355582 tatgcttacaagcaacaaca 6355563

Score = 81.8 bits (41), Expect = 5e-13
Identities = 50/53 (94%)
Strand = Plus / Plus

Query: 544 agagttgaaatcctttgtatttttattttatttgattattataatacataatt 596

|||||
Sbjct: 2409182 agagttgaaattctttgtattttcattttatttgattattaaaatacataatt 2409234

Score = 79.8 bits (40), Expect = 2e-12
Identities = 49/52 (94%)
Strand = Plus / Minus

Query: 703 aaaatattttaaatttgaaataatacaacaaaaattttaaaatacaaacaata 754
 |||||
Sbjct: 41625082 aaaatattttaaatttgaattaatacaacaaaaatttacaatacaaacaata 41625031

Score = 77.8 bits (39), Expect = 7e-12
Identities = 134/163 (82%), Gaps = 2/163 (1%)
Strand = Plus / Plus

Query: 1582 ctacaaatcattaaataatacaattacaatcaaataatttggggagggggtcttcaaaac
1641
 |||||
Sbjct: 18489154 ctacaaatcattaaataataaaaatagaaatcaaataaattgggg-ggttttcttcaaaac
18489212

Query: 1642 ttgattcaagggtcattgtatcatcgagggtattcacccaaaccctc-caaatcaaagag
1700
 | |||||
Sbjct: 18489213 tcgattcaagggtcaatgtttgaccgagggtattcatccaaacctcaaaaaatgaaagag
18489272

Query: 1701 cttgagaaaactggtggtggttgatgcatatgtttatgtgggtg 1743
 | |||||
Sbjct: 18489273 ttgacagaaattggtggtggatatgcacatgttcgtgtgggtg 18489315

Score = 71.9 bits (36), Expect = 4e-10
Identities = 165/206 (80%), Gaps = 4/206 (1%)
Strand = Plus / Plus

Query: 908 gttggggcgaattcttggttgatgacatggtgaccaacatgcttcattgcacaatttccc
967
 |||||
Sbjct: 8225042 gttggggcagatcattggctcgtgacacggtggccaatatacttcattgtgcaattctcc
8225101

Query: 968 aagtaatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagtt
1027

Sbjct: 8225102 aaacaatcctctatatatggttgagacacttttgaacgtatacacaggatgtatatagtt
8225161

Query: 1028 cctataactcatggtgagcatgctt---ataaacaacaacatgagaacaaaacatgtgc-a
1083

Sbjct: 8225162 ctagtactcatgatgagcatgcttgcaagcagcaacaacatgagaacaaggcatgtgcaa
8225221

Query: 1084 ttttttgaaatttgtcacagtcacac 1109

Sbjct: 8225222 ttttctggaatttgccacagtcacac 8225247

Score = 71.9 bits (36), Expect = 4e-10
Identities = 85/100 (85%), Gaps = 1/100 (1%)
Strand = Plus / Minus

Query: 695 aatagaacaaaatatatttaaatttgaaataatacaacaaaaattttaaaatacaaacaata
754

Sbjct: 26545477 aatagaacataatatataaatttgaattaatacaacaaaaattttacaaatacaaa-aata
26545419

Query: 755 tggcataaaaattaatggttggcctgagcctacacaatg 794

Sbjct: 26545418 tggcatacattcaacattggttgggttaagcctacacaatg 26545379

Score = 69.9 bits (35), Expect = 2e-09
Identities = 98/119 (82%)
Strand = Plus / Minus

Query: 1005 gtatacacaagatgtatgtagttcctataactcatggtgagcatgcttataaacaacaaca
1064

Sbjct: 41624755 gtatacacgaaatgtatgtaatttctgtattaatgataagcatgcttacaagcagcaaca
41624696

Query: 1065 tgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctag
1123

Sbjct: 41624695 tgagaacaaggtatgtgcaacttttggaattttccacagtcacaccacctttcatctag
41624637

Score = 67.9 bits (34), Expect = 7e-09
Identities = 49/53 (92%), Gaps = 2/53 (3%)
Strand = Plus / Minus

Query: 544 agagttgaaatcctttgtatTTTTATTTTATTGATTATTATAATACATAATT 596
||||||| ||||||||||||||| ||||||||||||||| |||||||||||
Sbjct: 25180202 agagttgagatcctttgtatTTTCATTTTATTGATTAT--TAATACATAATT
25180152

Score = 65.9 bits (33), Expect = 3e-08
Identities = 54/61 (88%)
Strand = Plus / Plus

Query: 703 aaaatattttaatttgaaataatacaacaaaaattttaaaatacaaacaaatatggcataa
762
||||||| ||||||| ||||| ||||| ||| ||||||||||||||| | |||||
Sbjct: 18473032 aaaatattttaatttgaaataataccacaaaaattttaaaatacaaacaaatacgacataa
18473091

Query: 763 a 763
|
Sbjct: 18473092 a 18473092

Score = 65.9 bits (33), Expect = 3e-08
Identities = 76/89 (85%), Gaps = 1/89 (1%)
Strand = Plus / Plus

Query: 1256 gccttgTTTAATACTTTTGTATAAACTTCACCAAATGTAATCACTCTTGCGACTTCTCTC
1315
||||||| ||||||||||||||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 18473585 gccttgTTTtagtactTTTGTATAAACTTGGCCAGATGCAAGCATTGTTGTGCCTTTTCTC
18473644

Query: 1316 CCCCTTGGTTGAACAATGCATTACACCT 1344
|| |||| |||||||||||||||
Sbjct: 18473645 CCTCTTT-GTTGAACAATGCATTACACCT 18473672

Score = 63.9 bits (32), Expect = 1e-07
Identities = 38/40 (95%)

Strand = Plus / Plus

Query: 554 tcctttgtatTTTTATTTTATTTGATTATTATAATACATA 593
|||||
Sbjct: 37857325 tcctttgtatTTTcattttatttgattattaaaatacata 37857364

Score = 58.0 bits (29), Expect = 7e-06
Identities = 62/73 (84%)
Strand = Plus / Minus

Query: 1416 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttgtggaatcttcct
1475
|||||
Sbjct: 1462715 gtgtcccatattgtcagccaccatcctatgcaagagtctacttttctcacggaatcttcct
1462656

Query: 1476 aagctaattaatt 1488
|||
Sbjct: 1462655 tagccaattaatt 1462643

Score = 58.0 bits (29), Expect = 7e-06
Identities = 47/53 (88%)
Strand = Plus / Minus

Query: 846 tccattttggtgtgtatatacgagaggagacatgacaacctttagaatttctttt 898
|||||
Sbjct: 40165171 tccatttcagtgtgtatataagaggagacatgacgacctttaaaatttctttt
40165119

Score = 54.0 bits (27), Expect = 1e-04
Identities = 101/126 (80%), Gaps = 6/126 (4%)
Strand = Plus / Plus

Query: 439 ttaattgtctatatttTgtgttctgtttaaattgaaaacaatattttttcatatgttgt
498
|||||
Sbjct: 2408848 ttaattatttatatttatgttttgtttaaactcaaaatgatatttttTgtatgttgt
2408907

Query: 499 taattcttaatttcttatgcataattttatgttttatcattttttaagagttgaaatcctt
558
|||

Sbjct: 2408908 taat-----ttgtttttgcataatcttttagtggttatcattttttaagagttaaaattctt
2408961

Query: 559 tgtatt 564
 | |||
Sbjct: 2408962 tatatt 2408967

Score = 54.0 bits (27), Expect = 1e-04
Identities = 48/55 (87%)
Strand = Plus / Plus

Query: 1290 atgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacct 1344
 ||||| ||| ||||| ||||| || || ||| ||||| ||||| |||||
Sbjct: 2409511 atgtaagcactggtgcgacttctctccttttagttgaataatgcattacacct
2409565

Score = 54.0 bits (27), Expect = 1e-04
Identities = 36/39 (92%)
Strand = Plus / Plus

Query: 1379 attttggtgttttcttgagtaccaaattaattaactcagt 1417
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2409602 attttggtgttttcttaaataccaaattaattgactcagt 2409640

Score = 54.0 bits (27), Expect = 1e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 ||||| ||||| ||||| ||||| |||||
Sbjct: 6355962 acaagttgaattgaactaaaatatttaaatt 6355932

Score = 54.0 bits (27), Expect = 1e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 ||||| ||||| ||||| ||||| |||||
Sbjct: 6356162 acaagttgaattgaactaaaatatttaaatt 6356132

Score = 54.0 bits (27), Expect = 1e-04
Identities = 102/125 (81%), Gaps = 4/125 (3%)
Strand = Plus / Minus

Query: 995 actttttcagcgtatacacaagatgtatgtagttcctataactcatgg-tgagcatgcttat
1053
 ||||| ||||| | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1259944 actttttcaacgtatacctaggatgtatgtagttctagtactcatgggtgagcatgattac
1259985

Query: 1054 aaacaacaa---catgagaacaaaacatgtgcattttttgaaatttgtcacagtcacact
1110
 || || || | ||||| ||||| || || || | |||| | |||| | ||||| |||||
Sbjct: 1259984 aagcagcaagaacatgagaacaaggcatatgcaacttttggaatttgccacagtcacatt
12599825

Query: 1111 acctt 1115
 |||||
Sbjct: 12599824 acctt 12599820

Score = 54.0 bits (27), Expect = 1e-04
Identities = 51/59 (86%)
Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtcacttttcttgtggaatcttcctaagctaattaattg
1489
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18473770 gccaccatctcatgcgagagtcacttttctcgtgaaatctcactaagccaattaattg
18473828

Score = 52.0 bits (26), Expect = 4e-04
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 1208 aactcaagaacaatgtgagagtttgccttt 1237
 |||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25179620 aacttaagaacaatgtgagagtttgccttt 25179591

Score = 52.0 bits (26), Expect = 4e-04
Identities = 67/80 (83%), Gaps = 3/80 (3%)

Strand = Plus / Minus

Query: 1207 gaactcaagaacaatgtgagagtttgcctttttctgtatgt---ctttcatagccttggt
1263
|||||
Sbjct: 27534411 gaactcaagaacaatgtgcatgttttcctttttctatgtgttttctttgatggccttggt
27534352

Query: 1264 taatacttttgtataaaactt 1283
|| |||||
Sbjct: 27534351 tagtacttctgtataaaactt 27534332

Score = 52.0 bits (26), Expect = 4e-04
Identities = 35/38 (92%)
Strand = Plus / Minus

Query: 926 cttgtgacatggtgaccaacatgcttcattgcacaatt 963
|||||
Sbjct: 40165109 cttgtgacatggtgaccaaatatgtttcgttgcaacaatt 40165072

Score = 50.1 bits (25), Expect = 0.002
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 178 ataataaaaaaaaaaattaattatttta 202
|||||
Sbjct: 10665906 ataataaaaaaaaaaattaattatttta 10665882

Score = 50.1 bits (25), Expect = 0.002
Identities = 64/77 (83%)
Strand = Plus / Plus

Query: 1803 gaaaacatagtaattattttcctcatcatcttgagcagcatatgcctgtactgaaaacaa
1862
|||||
Sbjct: 18489373 gaaaacatagtcacatgtcctcatcatcatgcaacatgcatgtcatgtactagccacaa
18489432

Query: 1863 tcaccaacaaatgatac 1879
|| |||||
Sbjct: 18489433 tcgccaacaaatgatac 18489449

```
Query: 1079      gtgcattttttgaaatttgtcacagtcacac 1109
              |||||  || ||||| ||||| |||||
Sbjct: 26545070 gtgcaacttctggaatttgccacaatcacac 26545040
```

```
Query: 1440      ccatgcgagagtccacttttcttgtggaatct 1471
                |||||
Sbjct: 2409680  ccatgcgagaatccacttttctcgtggaatct 2409711
```

Score = 48.1 bits (24), Expect = 0.006
Identities = 33/36 (91%)

Strand = Plus / Minus

Query: 703 aaaatatttaaatttgaaataatacaacaaaaattt 738
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6355945 aaaatatttaaatttgaaataatacaacaaaaaaattt 6355910

Score = 48.1 bits (24), Expect = 0.006
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 554 tcctttgtatttttattttatttgattattataata 589
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8224703 tcctttgcatttttcattttatttgattattaaaata 8224738

Score = 48.1 bits (24), Expect = 0.006
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 167 tttttatccaaataataaaaaaaaaaattaattattta 202
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40165717 tttttatccaaagaatacaataaattaattattta 40165682

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 5179431 aaattaaaaaatatatatttaa 5179452

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 166 tttttatccaaataataaaaaaaaaaattaa 195
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6900975 tttttcatccaaataatacaaaaaaattaa 6900946

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaaattaatt 197
|||||
Sbjct: 11126750 aaataataaaaaaaaaaattaatt 11126729

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 1302 ttgcgacttctctccccctttggttgaaca 1331
|||||
Sbjct: 12599662 ttgcgacttctctccctcttttggttgaaca 12599633

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 382 aattgcttttttttttgttttg 403
|||||
Sbjct: 32894080 aattgcttttttttttgttttg 32894059

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaactga 639
|||||
Sbjct: 39645098 aaattaaaaattatatatttaactga 39645123

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 612 tgaaattaaaaaatatatattt 633
|||||
Sbjct: 41289632 tgaaattaaaaaatatatattt 41289611

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 169 tttatccaaataataaaaaaaaaaatta 194
 ||||| |||||||||||||||||||||
Sbjct: 44675842 tttatacaaataataaaaaaaaaaatta 44675867

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1520 acaaataatTTTTATTATAAAA 1540
 |||||||||||||||||||||
Sbjct: 1889005 acaaataatTTTTATTATAAAA 1888985

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatatttaa 635
 |||||||||||||||||||||
Sbjct: 9621364 aattaaaaaatatatatttaa 9621344

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 696 atagaacaaaatatttaaatt 716
 |||||||||||||||||||||
Sbjct: 11407642 atagaacaaaatatttaaatt 11407622

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 258 accgatttcttaattacattttttt 282
||||||| |||||||
Sbjct: 25180697 accgatttcttcattacattttttt 25180673

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1388 tttcttgagtaccaaattaat 1408
||||||| |||||||
Sbjct: 26544771 tttcttgagtaccaaattaat 26544751

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 641 aagttgacttgaactaaaatatttaaatt 669
||||||| |||||||
Sbjct: 27534951 aagttgaactgaactaaaatatttaaatt 27534923

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 402 tgttttaaaattgtttgtattttta 426
||||||| |||||||
Sbjct: 37004151 tgttttaaaattgtttttattttta 37004175

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattta 634
||||||| |||||||
Sbjct: 38736112 aaattaaaaaatatatattta 38736092

Score = 42.1 bits (21), Expect = 0.39
Identities = 33/37 (89%)

Strand = Plus / Plus

```
Query: 166      ttttttatccaaataataaaaaaaaaattaattattta 202
               |||| |||||||||||||| ||| |||||||||| ||||
Sbjct: 40161284 ttttgtatccaaataatataaataaattaattgttta 40161320
```

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 387      cttttttttttgttttgtttt 407
               |||||||||||||||||||
Sbjct: 41231405 cttttttttttgttttgtttt 41231425
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 179      taataaaaaaaaaattaattattta 202
               |||||||||||||||||| |||||
Sbjct: 324772 taataaaaaaaaaattaaatattta 324795
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 387      cttttttttttgttttgtttt 406
               |||||||||||||||||||
Sbjct: 1517350 cttttttttttgttttgtttt 1517331
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 573      atttgattattataatacat 592
               |||||||||||||||||||
Sbjct: 2030432 atttgattattataatacat 2030451
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 44/52 (84%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattt 852
||||||| || ||| ||||| ||| ||| |||||
Sbjct: 2409447 atgcgacacatgaaatatcgctttggttgacccaatttttggatatccattt 2409498

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 185 aaaaaaattaattattttacccaaa 208
||||||| |||||
Sbjct: 3572134 aaaaaaattaattattttatccaaa 3572157

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 181 ataaaaaaaaattaattatt 200
||||||| |||||
Sbjct: 4542031 ataaaaaaaaattaattatt 4542050

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
||||||| |||||
Sbjct: 5604365 ttttttttttgttttgtttt 5604384

Score = 40.1 bits (20), Expect = 1.5
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 703 aaaatattttaatttgaaataatacaacaaaa 734
||||||| || ||||| |||||
Sbjct: 6356145 aaaatattttaattttaattaatacaaaaaaa 6356114

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 449 atatttgtgttctgtttaaa 468
 |||||
Sbjct: 9540389 atatttgtgttctgtttaaa 9540408

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 449 atatttgtgttctgtttaaa 468
 |||||
Sbjct: 9558941 atatttgtgttctgtttaaa 9558960

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgtttgtttt 407
 |||||
Sbjct: 10857407 ttttttttttgtttgtttt 10857426

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 388 ttttttttttgtttgttttaaaa 411
 |||||
Sbjct: 11681638 ttttttttttgtttttttttaaaa 11681661

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 326 tcattttttttttcaaaacc 345
 |||||
Sbjct: 12887090 tcattttttttttcaaaacc 12887109

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 122 aaaaagaaaaaagaaatgca 141
 |||||
Sbjct: 17986950 aaaaagaaaaaagaaatgca 17986969

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 391 tttttttgttttgttttaa 410
 |||||
Sbjct: 18954820 tttttttgttttgttttaa 18954839

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttta 408
 |||||
Sbjct: 19656782 ttttttttgttttgtttta 19656801

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattta 634
 |||||
Sbjct: 20302303 aattaaaaaatatatattta 20302322

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 383      attgcttttttttttgtttt 402
               |||||
Sbjct: 21250193 attgcttttttttttgtttt 21250212
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 388      ttttttttttgttttgtttt 407
               |||||
Sbjct: 22900734 ttttttttttgttttgtttt 22900753
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 118      atcgaaaaagaaaaagaaa 137
               |||||
Sbjct: 24812318 atcgaaaaagaaaaagaaa 24812337
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 388      ttttttttttgttttgtttt 407
               |||||
Sbjct: 25031220 ttttttttttgttttgtttt 25031201
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 179      taataaaaaaaaaattaatta 198
               |||||
Sbjct: 29446804 taataaaaaaaaaattaatta 29446785
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 199 tttacccaaaaaattattta 218
 |||||
Sbjct: 30357652 tttacccaaaaaattattta 30357671

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 199 tttacccaaaaaattattta 218
 |||||
Sbjct: 30357763 tttacccaaaaaattattta 30357782

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 562 atttttattttatttgatta 581
 |||||
Sbjct: 33402884 atttttattttatttgatta 33402865

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 390 ttttttttgttttgttttaaaatt 413
 |||||
Sbjct: 33833284 ttttttttggtgttgtttttaaaatt 33833261

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 34002657 aaattaaaaaatatatattt 34002676

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaaaatatata 630
 |||||
Sbjct: 35322452 ttgaaattaaaaaatatata 35322433

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttatttttttt 434
 |||||
Sbjct: 35685739 tttgtatttttatttttttt 35685720

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 36551061 aaattaaaaaatatatattt 36551042

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 419 tatttttattttttttgttattaattgt 446
 ||||| ||| |||||
Sbjct: 36655317 tatttttattttttttattaattgt 36655344

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1805 aaacatagtaattatttcct 1824
|||||||
Sbjct: 40319677 aaacatagtaattatttcct 40319658

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
|||||||
Sbjct: 40856025 aaattaaaaaatatatattt 40856006

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 413 tgtttgtatttttattttttttgttatt 440
||||||| ||||| |||||||
Sbjct: 41629915 tgtttgtgtttttttttttttgttatt 41629942

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 666 aattacaaaatagatatgaaatta 689
||||||| |||||||
Sbjct: 42090078 aattacaaaataaatatgaaatta 42090055

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 421 tttttattttttttgttatt 440
|||||||
Sbjct: 43055705 tttttattttttttgttatt 43055686

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 389      tttttttttgttttgtttta 408
               |||||
Sbjct: 43084897 tttttttttgttttgtttta 43084916
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 614      aaattaaaaaatatatatttaact 637
               |||||
Sbjct: 43874504 aaattaaaaattatatatttaact 43874527
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 466      aaattgaaaacaatattatttttc 489
               |||||
Sbjct: 46436211 aaattgaaatcaatattatttttc 46436188
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 414      gtttgatatttttatttttt 432
               |||||
Sbjct: 727126   gtttgatatttttatttttt 727144
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 1522     aaatatttttattataaaa 1540
               |||||
Sbjct: 836930   aaatatttttattataaaa 836912
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaaattaatta 198
||||||| |||||||
Sbjct: 1203556 aaataataacaaaaaattaatta 1203578

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 180 aataaaaaaaaaaattaatta 198
||||||| |||||||
Sbjct: 1400888 aataaaaaaaaaaattaatta 1400906

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 183 aaaaaaaaaaattaattatatt 201
||||||| |||||||
Sbjct: 1888961 aaaaaaaaaaattaattatatt 1888979

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 561 tattttttattttatttgat 579
||||||| |||||||
Sbjct: 2713909 tattttttattttatttgat 2713891

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaa 410
||||||| |||||||
Sbjct: 2742951 ttttttttttttttgttttaa 2742973

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 652 aactaaaatattttaatta 670
|||||||
Sbjct: 2744343 aactaaaatattttaatta 2744325

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 121 gaaaaagaaaaagaaatg 139
|||||||
Sbjct: 3156169 gaaaaagaaaaagaaatg 3156187

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttt 406
|||||||
Sbjct: 3391831 ttttttttttgttttgttt 3391813

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
|||||||
Sbjct: 4386787 gtttgtatttttatttttt 4386769

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 181 ataaaaaaaaattaattat 199
|||||||
Sbjct: 4690417 ataaaaaaaaattaattat 4690435

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 181 ataaaaaaaaattaattat 199
|||||||
Sbjct: 4735481 ataaaaaaaaattaattat 4735499

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 416 ttgtatttttatttttttt 434
|||||||
Sbjct: 4940663 ttgtatttttatttttttt 4940645

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 619 aaaaaatatattttaact 637
|||||||
Sbjct: 4990761 aaaaaatatattttaact 4990779

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
|||||||
Sbjct: 5224661 aaatatattttattataaaa 5224643

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

Query: 177 aataataaaaaaaaaaattaa 195
 |||||
Sbjct: 5226638 aataataaaaaaaaaaattaa 5226656

Score = 38.2 bits (19), Expect = 6.1
Identities = 34/39 (87%)
Strand = Plus / Plus

Query: 462 gtttaaattgaaaacaatattatattttcatatgttgtta 500
 ||||| ||||| || ||||| |||||
Sbjct: 5659550 gtttaaataagaaaataattttatatttgtatatgttgtta 5659588

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 399 ttttgttttaaaattgttt 417
 |||||
Sbjct: 5831111 ttttgttttaaaattgttt 5831129

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Minus

Query: 638 gacaagttgacttgaactaaaatatttaa 668
 ||||| ||||| || |||||
Sbjct: 6356052 gacaagttgaattgaactaaaaaatataat 6356022

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 6626889 tttttttttgttttgtttt 6626871

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 578 attattataatacataatt 596
|||||||
Sbjct: 7419939 attattataatacataatt 7419957

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 1339 acacctagtatagggttgattttaccaa 1365
||||||| |||||
Sbjct: 7586564 acacctactatatgttgattttaccaa 7586538

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 618 taaaaaatatatatttaac 636
|||||||
Sbjct: 7981681 taaaaaatatatatttaac 7981663

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
|||||||
Sbjct: 10867371 tttttttttgttttgtttt 10867353

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 423 tttattttttttgttatta 441
|||||||
Sbjct: 11505136 tttattttttttgttatta 11505118

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 895 ttttcatttttgggttggggcaa 917
 |||||
Sbjct: 11973770 ttttcatttttgggttggggcaa 11973748

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 613 gaaattaaaaaatatatat 631
 |||||
Sbjct: 13613659 gaaattaaaaaatatatat 13613677

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 391 tttttttgttttgttttaa 409
 |||||
Sbjct: 18413196 tttttttgttttgttttaa 18413214

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 922 ttggcttgatgacatggatgacaa 944
 |||||
Sbjct: 18473281 ttggcttgatgacatggatgacaa 18473303

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 20433791 ttaaaaaatatatatttaa 20433773

Score = 38.2 bits (19), Expect = 6.1
Identities = 34/39 (87%)
Strand = Plus / Minus

Query: 394 ttttgttttgtttttaaattgtttgtatttttatttttt 432
 ||||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25903469 ttttgatttttttttaaattgttttaaagttttatttttt 25903431

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1078 tgtgcattttttgaaattt 1096
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 26223082 tgtgcattttttgaaattt 26223100

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 655 taaaatatttaaattacaaaata 677
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 26771611 taaaatatttaaattaaaaaata 26771633

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29938496 tttttttttgttttgtttt 29938514

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

```
Query: 178      ataataaaaaaaaaattaat 196
              |||||
Sbjct: 30592808 ataataaaaaaaaaattaat 30592826
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 609      aattgaaattaaaaaatat 627
              |||||
Sbjct: 33727106 aattgaaattaaaaaatat 33727124
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

```
Query: 422      ttttattttttttgttattaatt 444
              |||||
Sbjct: 34041006 ttttattttttttgttttaatt 34041028
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 727      caacaaaaattttaaaata 745
              |||||
Sbjct: 34863474 caacaaaaattttaaaata 34863492
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 181      ataaaaaaaaattaattat 199
              |||||
Sbjct: 35512919 ataaaaaaaaattaattat 35512901
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 412 ttgtttgtatttttatatt 430
 |||||
Sbjct: 35683855 ttgtttgtatttttatatt 35683873

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 182 taaaaaaaaattaattatt 200
 |||||
Sbjct: 36216405 taaaaaaaaattaattatt 36216387

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 422 ttttattttttttgttatt 440
 |||||
Sbjct: 38125885 ttttattttttttgttatt 38125867

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 165 tttttttatccaaataataaaaaaaaaa 191
 |||| |||||
Sbjct: 38975799 ttttattatccaaataagaaaaaaaaa 38975825

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tttttttattttatttgattatt 583
 |||||
Sbjct: 39800698 tttttttattttatttattatt 39800720

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatTTTTATTTTT 432
|||||
Sbjct: 39875883 gtttgtatTTTTATTTTT 39875865

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttGTTTGTttt 407
|||||
Sbjct: 40862239 ttttttttGTTTGTttt 40862257

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 417 tgtatTTTTATTTTTttg 435
|||||
Sbjct: 40985522 tgtatTTTTATTTTTttg 40985540

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatat 631
|||||
Sbjct: 41083231 gaaattaaaaaatatat 41083213

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
 |||||
Sbjct: 41124410 ttttttttttgttttgttt 41124428

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 1257 ccttggtttaatacttttgtataaactt 1283
 ||||| ||||| |||||
Sbjct: 41624505 ccttggtttagtacttctgtataaactt 41624479

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaattattt 201
 ||||| |||||
Sbjct: 41696009 taataaaaaataattaattattt 41695987

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatttttattttattt 576
 |||||
Sbjct: 41763428 ttgtatttttattttattt 41763446

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttttgttttgtttt 407
 |||||
Sbjct: 41924042 ttttttttttgttttgtttt 41924060

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

```
Query: 419      ttttttttttttttttgg 437
              |||||
Sbjct: 42264849 ttttttttttttttttgg 42264867
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 561      ttttttttttttttttgat 579
              |||||
Sbjct: 42557363 ttttttttttttttttgat 42557381
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 414      gtttgatttttttttttt 432
              |||||
Sbjct: 43615303 gtttgatttttttttttt 43615321
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

```
Query: 388      ttttttttttgttttgttttaa 410
              |||||
Sbjct: 43907005 ttttttttttgttttgttttaa 43906983
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 617      ttaaaaaatatatatttaa 635
              |||||
Sbjct: 44465786 ttaaaaaatatatatttaa 44465804
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 422 ttttattttttttggttatt 440
|||||||
Sbjct: 44863043 ttttattttttttggttatt 44863025

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 182 taaaaaaaaaattaattatt 200
|||||||
Sbjct: 45577930 taaaaaaaaaattaattatt 45577912

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 564 ttttattttatttgattattata 586
|||||||
Sbjct: 46047491 ttttattttatttgattattata 46047513

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tattttttattttatttgattatt 583
|||||||
Sbjct: 46396788 tattttttattttatttgattatt 46396810

>[gb|CM000846.1](#) Glycine max chromosome 13, whole genome shotgun sequence
Length = 44408971

Score = 218 bits (110), Expect = 3e-54
Identities = 317/383 (82%), Gaps = 6/383 (1%)
Strand = Plus / Minus

Query: 1500 ttggccttaaaacacacatgacaaatattttttattataaaacaaacacccagtgatacaa
1559

|||| ||||||||| ||| | ||||||||| ||||||||| ||| |||||
Sbjct: 11457430 ttgggcttaaaacacacatggcgattattttttattataaaacaaacacttagtaatacaa
11457371

Query: 1560 caatgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaataat
1619

|||| || | |||| |||| |||| ||||||||| ||||| ||| | |||||||||
Sbjct: 11457370 caataaatagcacatatgatgactataaatcattaaataataaaataaaaaatcaaataat
11457311

Query: 1620 ttggggaggggggtcttcaaaacttgattcaagggttcattgtatcatcgagggtattcaccc
1679

|| | | ||||||||| ||||||||| ||||||| |||| |
Sbjct: 11457310 ttagag---gggtcttcaaaactcaattcaagggttcattgtttcatcgaactatttatca
11457254

Query: 1680 aaaccctccaaattcaaagagcttgcagaaactgggtgg-tgggtgtgcatatgtttatgt
1738

||| |||| |||||||| ||||||||| ||||||| |||| ||| ||||
Sbjct: 11457253 aaatcctcaaaattcaacgagcttgcagaaattgggtgggtgggtgggttatgcacatgt
11457194

Query: 1739 --gggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaagagtttcca
1796

| |||||||| | || ||| ||| |||| | ||||| | ||||||| ||| ||||
Sbjct: 11457193 ttgtgtgtgtctgcagtagtaagatataacttaatccatgtcaggttgaaggggtgccca
11457134

Query: 1797 aatatagaaaacatagtaattattttcctcatcatcttgcagcatacatgacctgtactga
1856

||||||||| ||||| ||||||||| |||| ||||||| || ||||| |||||||||
Sbjct: 11457133 aatatagaaagcatagcaattattttcctcttcatattgcagtatgtatgctctgtactga
11457074

Query: 1857 aaacaatcaccaacaaatgatac 1879
||||||| |||||||||
Sbjct: 11457073 aaacaatccccaacaaatgatac 11457051

Score = 184 bits (93), Expect = 4e-44
Identities = 271/328 (82%), Gaps = 8/328 (2%)
Strand = Plus / Minus

Query: 1554 atacaacaatgaacaacaca----catgacaactacaaatcattaaataatacaattaca
1609

||||||||||| ||||| | |||| ||||||||| ||||||||| ||| ||

Sbjct: 25071726 atacaacaatgaaaaacacatgcacttgacgactacaaattattaaataataaaaatagca
25071667

Query: 1610 atcaaataatttggggg-agggggg---tcttcaaaacttgattcaagggttcattgtatcat
1665

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25071666 atcaaataaattgggggaggggggggttcttcaaaactcgattcaagggttcattgcttcat
25071607

Query: 1666 cgagggtattcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtggtgtg
1725

| | ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25071606 caacgtatttatccaaacccttcaaattcaaagagcttgagaaattgggtggatgtg
25071547

Query: 1726 catatgtttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttga
1785

|| ||||| || || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25071546 cacatgtttgtgtaggcattgtctgcgggtcataatatataacttcatgcatgtgagcttgg
25071487

Query: 1786 agagtttcccaaatatagaaaacatagtaattatttctcatcatcttgcagcatacatg
1845

||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25071486 agattttcccgaacatagaaaacatagtcattacatctcatcattgtgcaacatgcatg
25071427

Query: 1846 ccctgtactgaaaacaatcaccaacaaa 1873

|| ||||| | | ||||| |||||
Sbjct: 25071426 ccttgtactaaccataatcaccaacaaa 25071399

Score = 168 bits (85), Expect = 2e-39
Identities = 124/137 (90%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
698

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 17323827 acaagttgaattgaactaaaatatttaaagtataaaatacatataaaattaccaacaata
17323886

Query: 699 gaacaaaatattttaaatttgaaataatacaacaaaaatttttaaatacaaaacaatatggc
758

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 17323887 aaacaaaatattttaaatttgaaagaatacaacaaaatgttttaaatacaaaacaatatgac
17323946

Query: 759 ataaaattaatgttggt 775
 ||||| |||| |
Sbjct: 17323947 ataaatttaacgttggt 17323963

Score = 161 bits (81), Expect = 6e-37
Identities = 192/228 (84%), Gaps = 2/228 (0%)
Strand = Plus / Plus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
1613
 ||||| |||| | ||||||||| | ||||||| ||| |||| |
Sbjct: 8496457 atacagcaatgcaaaacacacatgacgaatacaaatcgtaagtaataaaatagcaatca
8496516

Query: 1614 aataatttgggga--gggggtcttcaaaacttgattcaagggttcattgtatcatcgaggt
1671
 ||||| |||| | ||||||||| ||||||||| ||||| |||
Sbjct: 8496517 aataaattgggggaggggggtcttcaaaactcgattcaagggttcattgcttcatcaagggt
8496576

Query: 1672 attcacccaaaccctccaaattcaaagagcttgcagaaactggtggtggttgtgcatatg
1731
 ||||| ||||||||| ||||| | |||| | ||||||| ||| || |||
Sbjct: 8496577 attcatccaaaccctccaaattgacagagctggtagaaattagtgggtgatgttcacatg
8496636

Query: 1732 tttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtga 1779
 || ||||| ||||||||| || ||| || ||||| |||||||||
Sbjct: 8496637 ttagtgtggttgtgtctacagtggtaatatataactccaggcatgtga 8496684

Score = 155 bits (78), Expect = 4e-35
Identities = 193/228 (84%), Gaps = 5/228 (2%)
Strand = Plus / Minus

Query: 1181 actaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttc
1240
 ||||||||| || ||| |||| | || ||||||||| ||||||||| ||| ||
Sbjct: 11474231 actaagaatcgtgtgttgcacatgattgaactcaagaacaatgtgagagtttgtttttctc
11474172

Query: 1241 tgtatgtctttcatagccttgttttaatacttttgtataaacttcaccaaagtgaatcact
1300
 ||| ||||| ||||||||| ||||| ||||||||| | || ||||| |

Sbjct: 11474171 tgtgtgtcttccatagccttgttttagtacttgtgtataaaacttggt-agatctaatacgt
11474113

Query: 1301 cttgcgacttctctcccccttgggtgaacaatgcattacacctagtatagggtgatttt
1360

|||||
Sbjct: 11474112 --tgcgacttctctcttttcttgggtgaacaatgtattacaccttttatagggtgatttt
11474055

Query: 1361 accaacaca--cattgccagattttgtgttttcttgagtaccaaatta 1406

|||||
Sbjct: 11474054 accaacacatttattggcaaatttcgtgttttcttgagttccaaatta 11474007

Score = 139 bits (70), Expect = 2e-30
Identities = 203/246 (82%), Gaps = 1/246 (0%)
Strand = Plus / Minus

Query: 1632 tcttcaaaaacttgattcaagggtcattgtatcatcgaggattcacccaaaccctccaaa
1691

|||||
Sbjct: 694520 tcttcaaaaactcgatttaagggttattgcttcatcaagggtattcatttaaaccctccaaa
694461

Query: 1692 ttcaaagagcttgcagaaaactggtggtggttgatcatatgtttatgtgggtgtgtctacg
1751

||| || ||||| ||||| ||||| || ||||| ||||| ||||| |||||
Sbjct: 694460 ttccaaaagcttgtagaaattggtagtaattgtgcatatgtttgtgtgcgtgtgtcctta
694401

Query: 1752 gtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaataatagaaaacata
1811

||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 694400 gtggtaacatataactcaacacatgtgga-ttgtggagtttcccgaataaagaaaacata
694342

Query: 1812 gtaattatttctcatcatcttgcagcatacatgccctgtactgaaaacaatcaccaaca
1871

|| || || || ||||| ||||| ||||| || ||||| ||||| ||||| |||||
Sbjct: 694341 gttatcatgtcatcatcatcttgcagcttgcaggtcttatattgaaaacaatcaccagca
694282

Query: 1872 aatgat 1877

|||||
Sbjct: 694281 aatgat 694276

Score = 133 bits (67), Expect = 1e-28
Identities = 110/123 (89%), Gaps = 1/123 (0%)
Strand = Plus / Minus

Query: 641 aagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaataga
700
||||| ||||| ||||||||| ||| ||||||||| ||||||||| |||||
Sbjct: 11474588 aagttgaattgaagaaaaatatttaa-ttataaaatagatataaaattacaaacaataga
11474530

Query: 701 acaaaatattttaaatttgaaataatacaacaaaaattttaaaatacaaaacaatatggcat
760
| ||||||||| ||||| ||||||| || ||||||||| ||||||||| |||||
Sbjct: 11474529 ataaaatattttaaattagaaacaatacaacgaagtttttaaaatacaaaacaatatgacat
11474470

Query: 761 aaa 763
|||
Sbjct: 11474469 aaa 11474467

Score = 127 bits (64), Expect = 8e-27
Identities = 204/250 (81%), Gaps = 3/250 (1%)
Strand = Plus / Plus

Query: 1632 tcttcaaaacttgattcaagggttcattgtatcatcgaggattcacccaaaccctccaaa
1691
||||| ||||||| ||||||||| ||||| ||||||| ||| ||| ||| |||
Sbjct: 3929300 tcttcaaaactcgattcaagggttcattgtttcatcaaggattcatccataccatctaaa
3929359

Query: 1692 ttcaaagagcttgagaaaactgggtggtggttgatgcatatgtttatgtgggtgtgtctacg
1751
||| ||||||| || ||| || ||| ||||||||| ||||||||| |||
Sbjct: 3929360 ttccaagagcttgtaaaaatttgcggtgattgtgcatatgtctatgtgggtgtatcctta
3929419

Query: 1752 gtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaataatagaaaacata
1811
||| ||||||| || ||||| ||||||| ||| ||||||| ||||| |||||||||
Sbjct: 3929420 gtggtaacatataaatcaatgcatgtgagattgtggagttttgtgaataaagaaaacata
3929479

Query: 1812 gtaattatttcctcatcatcttgcagcatacatgccctgtactg---aaaacaatcacca
1868
|| ||||| ||||||||| ||| || ||||| || ||||| ||||| |||||

Score = 97.6 bits (49), Expect = 8e-18

Identities = 151/180 (83%), Gaps = 5/180 (2%)
Strand = Plus / Plus

```
Query: 1554      atacaacaatgaacaacacacatgacaactacaaatcattaataataca-attacaatc
1612            |||
Sbjct: 17163176 atacaacaacaaaaaacacacatgaaaactaaaaatcatgaaataataaacataacaatc
17163235
```

```
Query: 1613      aaataaatTTGGGGagggggT--cttcaaaaattgattcaagggttcattgtatcatcgagg
1670            ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 17163236 aaaaaaattTggg-aggcTTTTtcttcaaagctcaattcaagggttcattgcttcgtcaagg
17163294
```

```
Query: 1671      tattcaccccaaacctccaaattcaaagagcttgccagaaactggagggtggttgatcatat
1730            ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 17163295 tattcttccaaaccctccaaattccaagagcttgca-aaattggtagtgggttgatcatat
17163353
```

Score = 93.7 bits (47), Expect = 1e-16
Identities = 104/123 (84%)
Strand = Plus / Plus

```
Query: 1756      taacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacatagtaa
1815            |||
Sbjct: 17163379 taacatataactcaatgcatatgaggttgtggagcttctcaaataagtaaaatatagtta
17163438
```

```
Query: 1816      ttattttcctcatcatcttgccagcatatacatgccctgtactgaaaacaatcaccaacaaatg
1875
Sbjct: 17163439 ttatgtcctcatcatcttgccgcttgcatgccctataactaaaaacaatcaccaacaaatg
17163498
```

```
Query: 1876      ata 1878
      |||
Sbjct: 17163499 ata 17163501
```

Score = 91.7 bits (46), Expect = 5e-16
Identities = 265/336 (78%), Gaps = 4/336 (1%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatac
864
||||| ||||||| ||||||| ||| ||||||||| ||||| ||||||| ||||
Sbjct: 8492894 gacacacggaacatcgctttggttgacctagttcttggataatcatttcggtgtggatac
8492953

Query: 865 gagaggagacatgacaacctttagaattttcttttcatttttgggttggggcaaattcttg
924
||||| ||| | ||||||| ||||||||| ||||||| | |||| | |||| ||| ||
Sbjct: 8492954 gagaaaagataggacaacccttagaattt-ttttcattgtcagggctgaggcagattatta
8493012

Query: 925 gcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtaca
984
||||||| ||||||| | || ||||||||| ||||| ||||| ||| | |||||
Sbjct: 8493013 gcttgtgacatggtggcaaataatgcttcattgtgtaattctgcaagcaattctctataca
8493072

Query: 985 tgttatagatacttttcagcgtatacacagaatgtatgtagttcctatactcatggtgag
1044
||||| ||| ||||| || | ||| ||||| || ||||||||| || ||||| |||
Sbjct: 8493073 tgttggagacactttccaacatatgcacaggacatatgtagttcctggacctggtgag
8493132

Query: 1045 catgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcac
1101
||||||| | | ||||||||| ||||||| ||||| || ||||| |||
Sbjct: 8493133 tatgcttacaagtagcaacaacatgagaacaaggcatgtgtaatttctggaatttgccac
8493192

Query: 1102 agtcacactacctttcatctagcttgaccatgaaat 1137
||| ||||| ||| ||||||| | | |||||||||
Sbjct: 8493193 agttacaccaccattcatccaacctgaccatgaaat 8493228

Score = 89.7 bits (45), Expect = 2e-15
Identities = 135/165 (81%)
Strand = Plus / Plus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcatthaatcgaactcaagaacaatgtg
1224
||||||| ||||| | ||||||||| | | ||||||| || ||| ||||||||| |||
Sbjct: 3917491 gttaattgtctcatgcactaagaatcatgtatcgcatthattgaattcaagaacatggtg
3917550

Query: 1225 agagtttgccctttttctgtatgtctttcatagccttgtttaatacttttgtataaaacttc
1284

Query: 1004 cgtatacacaagatgtatgtagttcctatactcatggtgagcatgcttataaacaacaac
1063

```

|||||
Sbjct: 11474404 cgtatacacatgatctatgtagttcctataactcatggtgagcatgtttataagcagcaac
11474345
```

```

Query: 1064      a 1064
                |
Sbjct: 11474344 a 11474344
```

Score = 81.8 bits (41), Expect = 5e-13
Identities = 50/53 (94%)
Strand = Plus / Minus

```

Query: 544      agagttgaaatcctttgtatttttattttatttgattattataataacataatt 596
                |||||||
Sbjct: 11474666 agagttgaaatcctttgtattttcattttatttgattattaaaatgcataatt
11474614
```

Score = 81.8 bits (41), Expect = 5e-13
Identities = 134/165 (81%)
Strand = Plus / Plus

```

Query: 1165      gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224
                |||||||
Sbjct: 17159760 gttaattgtcttctacactaagaatcgagtatcgcattgattgaattcaataacatggtg
17159819
```

```

Query: 1225      agagtttgcctttttctgtatgtctttcatagccttggttaataacttttgataaaacttc
1284
                |||||||
Sbjct: 17159820 agagttggccttttctgtgcgtcttccatagccttggttagtattttataaaacatg
17159879
```

```

Query: 1285      accaaatgtaatcactcttgcgacttctctccccctttggttgaa 1329
                ||| ||
Sbjct: 17159880 gccagatctaatactttttgcaacttctctccctctttggttgaa 17159924
```

Score = 81.8 bits (41), Expect = 5e-13
Identities = 92/108 (85%), Gaps = 2/108 (1%)
Strand = Plus / Minus

Query: 684 aaattacaaacaatagaacaaaata--tttaaatttgaaataataacaacaaaaattttaa
741

||||| ||||||||| ||| | ||||||||| ||||||||| ||| |
Sbjct: 17477408 aaattaccaacaatagaacaaaataaatataaatttgaattaataacaacaaaatttcaca
17477349

Query: 742 aatacaaaacaatatggcataaaaattaatggttggcctgagcctaca 789
||||| ||||| |||| | | ||||||||| ||||| |||||

Sbjct: 17477348 aatacaaaataatatgacatacattcaatggttggccttgagtctaca 17477301

Score = 79.8 bits (40), Expect = 2e-12
Identities = 143/176 (81%), Gaps = 1/176 (0%)
Strand = Plus / Minus

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
1228

|||| ||| ||||||||| | ||||| ||||||||| ||||||| ||||| |
Sbjct: 17476896 attgcctcttagactaagaatcatgtgtcgtggtgatcgaactcaagaacattgtgagt
17476837

Query: 1229 tttgcctttttctgtatgtctttcatagccttggttaataacttttgtataaaacttcacca
1288

||||||| | || ||||| || ||||||||| ||||| ||||||||| | |
Sbjct: 17476836 tttgcctttctaagtc-gtcttgatggccttggttagtacttccttataaaacttggcta
17476778

Query: 1289 aatgtaatcactcttgcgacttctctcccccttgggtgaacaatgcattacacct 1344

||| || | | ||||| ||||||||| ||||| ||||||||| |||||||
Sbjct: 17476777 gatgcaagcattggttgcggcttctctccctcttttgggtgaacaatgcattacacct
17476722

Score = 75.8 bits (38), Expect = 3e-11
Identities = 75/86 (87%), Gaps = 1/86 (1%)
Strand = Plus / Minus

Query: 1540 acaaacacccagtgataacaacaatgaacaacacacatgacaactacaaatcattaaataa
1599

||||||| ||| ||||||||| ||||||||| ||||| ||||| ||||||| |||||
Sbjct: 694614 acaaacacatagtaataacaacaatgaacaacacatatgaagactataaatcatgaaataa
694555

Query: 1600 taca-attacaatcaaataatttggg 1624

|| | || ||||||||| |||||
Sbjct: 694554 taaacataacaatcaaataatttggg 694529

Score = 71.9 bits (36), Expect = 4e-10
Identities = 63/72 (87%)
Strand = Plus / Minus

Query: 428 tttttttgttattaattgtctatatttgtgttctgttttaaattgaaaacaatattatttt
487
 ||||| ||||||||||||||||||| |||| |||||||| || || ||||||||||||
Sbjct: 11476744 tttttatgttattaattgtctatattcatgttttgtttaaacggacaataatattatttt
11476685

Query: 488 tcatatgttggt 499
 |||||||||||
Sbjct: 11476684 gcatatgttggt 11476673

Score = 69.9 bits (35), Expect = 2e-09
Identities = 104/127 (81%)
Strand = Plus / Minus

Query: 1203 aatcgaactcaagaacaatgtgagagtttgcccttttctgtatgtctttcatagccttgt
1262
 ||||||||||||||||| ||||||||| ||||||| | |||| ||||| ||||||| |||
Sbjct: 13169116 aatcgaactcaagaacatggtgagagttggcctttcttgtacgtcttccatagctctgt
13169057

Query: 1263 ttaatacttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctcccccttt
1322
 ||| || ||||||||||||| | ||| || || | ||| | | |||||||||||| ||||
Sbjct: 13169056 ttagtatttttgtataaacatggccatatctagtaactgcttctacttctctccctcttt
13168997

Query: 1323 ggttgaa 1329
 |||||||
Sbjct: 13168996 ggttgaa 13168990

Score = 69.9 bits (35), Expect = 2e-09
Identities = 188/239 (78%)
Strand = Plus / Minus

Query: 814 aacatcatttttggtttacctgattcttggatatccatttttggtgtgtatacgagaggaga
873
 ||||||| ||||||| ||| | |||| |||||||||||| |||||| | || ||| | |||

Sbjct: 17477254 aacatcacttttggttgacccggttctcggatatccatttcggtgtggatatgagtgaaga
17477195

Query: 874 catgacaaccttttagaatttcttttcatttttgggttggggcaaattcttggcttgtgac
933

|| || ||| |||| | || |||| | | | | | | |||||
Sbjct: 17477194 caagatgacccttagtacttgttttcttttctagatcgagggagatcattggcttgtgac
17477135

Query: 934 atggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtacatgttataga
993

| ||||| || | |||| || | |||| |||| | |||| ||||
Sbjct: 17477134 acggtgaccaataggcttcgttgtgcaattctccaaacaatcatctgtatatgttggaga
17477075

Query: 994 tacttttcagcgtatacacagaatgtatgtagttcctatactcatggtgagcatgctta
1052

|||| | ||||| ||||| ||||| || | |||| | ||||| |||||
Sbjct: 17477074 cactttctaacgtatacacagaacgtatgtagtttttgtaatcatgatgagcatgctta
17477016

Score = 69.9 bits (35), Expect = 2e-09
Identities = 41/43 (95%)
Strand = Plus / Plus

Query: 1302 ttgcgacttctctcccccttttggttgaacaatgcattacacct 1344
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18092209 ttgcgacttctctccctcttttgggttgaacaatgcattacacct 18092251

Score = 69.9 bits (35), Expect = 2e-09
Identities = 65/75 (86%)
Strand = Plus / Plus

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
1228

|||||| | || ||||| ||| ||| ||||| ||||| ||||| |||||
Sbjct: 35043570 attgtctcttgattaagaagtgtgtgttgcatthaatcaaactcaagaacagtgtgagca
35043629

Query: 1229 tttgcctttttctgt 1243
||||| ||||| ||||| ||||| |||||
Sbjct: 35043630 tttgcctttttctgt 35043644

Score = 67.9 bits (34), Expect = 7e-09
Identities = 55/62 (88%)
Strand = Plus / Plus

Query: 1059 acaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttca
1118
 |||||
Sbjct: 18091965 acaacatgagaacaagacatgtgcaattttttgaatttgaacagtcacaccacctttca
18092024

Query: 1119 tc 1120
 ||
Sbjct: 18092025 tc 18092026

Score = 63.9 bits (32), Expect = 1e-07
Identities = 56/64 (87%)
Strand = Plus / Minus

Query: 836 ttcttggatatccatttttgggtgtgtatacgagaggagacatgacaacctttagaatttct
895
 |||||
Sbjct: 12543493 ttcttagatatccatttttgggtatggatcacgagaggagacaagatgacccttataatttct
12543434

Query: 896 tttc 899
 ||||
Sbjct: 12543433 tttc 12543430

Score = 63.9 bits (32), Expect = 1e-07
Identities = 38/40 (95%)
Strand = Plus / Minus

Query: 554 tcctttgtatttttattttatttgattattataatacata 593
 |||||
Sbjct: 12543755 tccttcgtatttttattttatttgattattaaaatacata 12543716

Score = 58.0 bits (29), Expect = 7e-06
Identities = 98/121 (80%)
Strand = Plus / Minus

Query: 843 atatccattttggtgtgtatacgagaggagacatgacaacctttagaatttcttttcatt
902

|||||
Sbjct: 697367 atatccattttgatgtgtatacaagaggatactggacgacctatagaatttcttaacatt
697308

Query: 903 tttgggttggggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcacaat
962

||| ||| || || ||| ||| || ||||| ||| |||| | |||||
Sbjct: 697307 ttttggtcaggccatattggtgggttatgacactgtggccaatacgcttcattgcacaat
697248

Query: 963 t 963
|
Sbjct: 697247 t 697247

Score = 56.0 bits (28), Expect = 3e-05
Identities = 82/100 (82%)
Strand = Plus / Plus

Query: 806 acacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatacg
865

|||||
Sbjct: 17159400 acacatggaacatctttttggttgacttgggtgttctcatatccatttcagtgtgtatatg
17159459

Query: 866 agaggagacatgacaacctttagaatttcttttcattttt 905
||||| || |||||
Sbjct: 17159460 agaggataactaaacaacctttagaatttcttaacattttt 17159499

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 554 tcctttgtatttttattttatttgattattataatacata 593
||||| |||||
Sbjct: 17477498 tcctttgcatttttcattttatttgattattataaaacata 17477459

Score = 56.0 bits (28), Expect = 3e-05
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 1006 tatacacaagatgtatgtagttcctataactcatggt 1041
 |||||
Sbjct: 35041345 tatacacaagatgtatgtagttcatgtactcatggt 35041380

Score = 54.0 bits (27), Expect = 1e-04
Identities = 54/63 (85%)
Strand = Plus / Minus

Query: 843 atatccattttggtgtgtatacgagaggagacatgacaacctttagaatttcttttcatt
902
 ||||| |||| | ||| |||||
Sbjct: 13176826 atatctatttcgatgtatatacgagaggatactagacgacctttagaatttctttacatt
13176767

Query: 903 ttt 905
 |||
Sbjct: 13176766 ttt 13176764

Score = 54.0 bits (27), Expect = 1e-04
Identities = 39/43 (90%)
Strand = Plus / Minus

Query: 1582 ctacaaatcattaaataataacaattacaatcaaataatttggg 1624
 |||||
Sbjct: 17460469 ctacaaatcattaaataataaaaatagcaatcaaataaattggg 17460427

Score = 54.0 bits (27), Expect = 1e-04
Identities = 69/83 (83%)
Strand = Plus / Minus

Query: 881 acctttagaatttcttttcatttttgggttgaggcaaattccttggttgacatggtga
940
 |||||
Sbjct: 23309591 acctttagaatttcttaacatttttgggttgaggcaaattggttggttcgtgacacgataa
23309532

Query: 941 ccaacatgcttcattgcacaatt 963
 |||| | |||||
Sbjct: 23309531 ccaaaactcttcattgcacaatt 23309509

Score = 52.0 bits (26), Expect = 4e-04
Identities = 62/74 (83%)
Strand = Plus / Minus

```
Query: 1416      gtgtcccccacgcccagccaccatcccatgcgagagtgccacttttctctgtggaatcttcct
1475            |||||||      |||||||      |||||||      |||||||      |||||||      ||
Sbjct: 11473980 gtgtcccccacgtaggctaccatcccatgtgagagtgccatttttctcttggaatctcctc
11473921
```

```
Query: 1476      aagctaattaattg 1489
          ||||  |||||
Sbjct: 11473920 aaqccaattaattg 11473907
```

Score = 52.0 bits (26), Expect = 4e-04
Identities = 64/76 (84%), Gaps = 3/76 (3%)
Strand = Plus / Minus

```
Query: 1030      tatactcatggtgagcatgcttata--aacaacaacatgagaacaaaacatgtgcattt
1086            |||||||      |      |||||||      |||||||      |||||||      |||
Sbjct: 13176639 tatacttatggtgagcatgcttacaagcaacaacgacatgtgaacaagacatgtgtatct
13176580
```

```
Query: 1087      tttgaaatttgtcaca 1102
          ||||  ||||  ||||
Sbjct: 13176579 tttggaatttatcaca 13176564
```

Score = 52.0 bits (26), Expect = 4e-04
Identities = 62/74 (83%)
Strand = Plus / Plus

```
Query: 1416      gtgtcccccattcgccagccaccatcccattgagagagtccactttttcttgtggaatcttcct
1475            |||
Sbjct: 18092342 gtgtcccccattcatcgaccaccatcctattgcgaaaatccattttttcttgcggaatctcact
18092401
```

```
Query: 1476      aagctaattaattg 1489
          |||| |||||
Sbjct: 18092402 aagccaattaattg 18092415
```

Score = 52.0 bits (26), Expect = 4e-04
Identities = 26/26 (100%)
Strand = Plus / Minus

Query: 1027 tcctataactcatggtgagcatgctta 1052
 ||||||||||||||||||||
Sbjct: 25800270 tcctataactcatggtgagcatgctta 25800245

Score = 52.0 bits (26), Expect = 4e-04
Identities = 29/30 (96%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgttttaaaattgtttgt 419
 |||||||||||||||| |||||||||
Sbjct: 41089122 ttttttttgttttgttttgaaattgtttgt 41089151

Score = 48.1 bits (24), Expect = 0.006
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 1012 caagatgtatgtagttcctataactcatggtga 1043
 ||||| ||||| |||||||||||||
Sbjct: 17159606 caagatttatgtaggtcctataactcatggtga 17159637

Score = 48.1 bits (24), Expect = 0.006
Identities = 99/124 (79%)
Strand = Plus / Minus

Query: 1206 cgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttggtta
1265
 ||||||||||||| |||| ||| ||||| | ||| ||||| ||||| || |||||
Sbjct: 23309265 cgaactcaagaacatagtgagggttgtcctttctttgtgcgctcttccatagtctcattta
23309206

Query: 1266 atacttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctccccctttggt
1325
 || ||||||||||||| | || || ||||| | ||||||||||||| || |||||
Sbjct: 23309205 gtatttttgtataaacatggtcagatctaatacattgttgcgacttctcttctctttggt
23309146

Query: 1326 tgaa 1329
 ||||

Sbjct: 23309145 tgaa 23309142

Score = 46.1 bits (23), Expect = 0.025
Identities = 92/115 (80%)
Strand = Plus / Plus

Query: 930 tgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgatcatgtta
989

||||| ||||||| ||||||| ||||||| ||| ||| | ||| ||
Sbjct: 3917255 tgacattgtgaccaatatgctttattgcacaattcgccaacaatactctatacacattt
3917314

Query: 990 tagatactttttcagcgtatacacagaatgtatgtagttcctataactcatgggtgag 1044

||| ||||||| | | ||||||| ||||||| | ||||||| |||||||
Sbjct: 3917315 gagacacttttcaacttgtacacagaatctatgtaggccttataactcatgggtgag
3917369

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 607 ttaattgaaattaaaaaatatatattttaact 637

||||||| ||||||| ||||||| |||||||
Sbjct: 8956140 ttaattgatattaaaaagtatatattttaact 8956110

Score = 46.1 bits (23), Expect = 0.025
Identities = 47/55 (85%)
Strand = Plus / Minus

Query: 1308 cttctctcccccttttggttgaacaatgcattacacctagtatagggttgattttac 1362

||||||| | |||| | ||||||| ||||||| ||| ||||||| |||||||
Sbjct: 12543020 cttctctcactcttttattgaacaatgcattacaccttagatatggttgattttac
12542966

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 308 gaaccgatttcaaaatgttcatttttttttt 338

||||||| ||||||| ||||||| |||||||

Sbjct: 23165121 gaaccgatttcataatgttcctttttttttt 23165091

Score = 46.1 bits (23), Expect = 0.025
Identities = 35/39 (89%)
Strand = Plus / Plus

Query: 164 ttttttttatccaaataataaaaaaaaaattaattattta 202
||||||| ||||||| ||| |||||||
Sbjct: 37772113 ttttttttacccaaataatacaaatattaattattta 37772151

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaa 409
||||||| |||||||
Sbjct: 13088319 ttttttttttgttttgttttaa 13088298

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 340 aaaaccaagttaagaaatcggttcct 365
||||||| |||||||
Sbjct: 18088195 aaaaccaagttatgaaatcggttcct 18088170

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 699 gaacaaaatatttaaatttgaa 720
||||||| |||||||
Sbjct: 38193935 gaacaaaatatttaaatttgaa 38193956

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgttttaaaa 411
||||| ||||||||||||||||
Sbjct: 10685900 cttttctttttgttttgttttaaaa 10685924

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 277 tttttttatacatttagaaattgggtt 301
||||||||||||||||| |||||
Sbjct: 11476844 tttttttatacatttaggaattgggtt 11476820

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 192 ttaattatttacccaaaaaaat 212
|||||||||||||||||
Sbjct: 24245050 ttaattatttacccaaaaaaat 24245030

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 607 ttaattgaaattaaaaaatatatatttaa 635
||||| ||| ||||||||||||||||
Sbjct: 32148134 ttaattaaaaataaaaaaatatatatttaa 32148162

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 335 ttttcaaaaccaagttaagaa 355
|||||||||||||||||
Sbjct: 36834391 ttttcaaaaccaagttaagaa 36834411

Score = 42.1 bits (21), Expect = 0.39

Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattta 634
|||||||
Sbjct: 41885123 aaattaaaaaatatatattta 41885103

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgttttaa 410
|||||||
Sbjct: 42309584 ttttttttgttttgttttaa 42309604

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttgttttgtttt 407
|||||||
Sbjct: 1547536 ttttttttgttttgtttt 1547517

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 415 tttgtatttttatttttttgta 438
|||||||
Sbjct: 3006473 tttgtatttttattttctttgta 3006496

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 162 agtttttttatccaaataa 181
|||||||
Sbjct: 3722339 agtttttttatccaaataa 3722320

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 5576509 ttttttttttgttttgtttt 5576528

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 6628745 aaattaaaaaatatatattt 6628764

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 1388 tttcttgagtaccaaattaactca 1415
 |||||
Sbjct: 8493474 tttcttgagtaccgaattaattgactca 8493501

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 383 attgctttttttttgtttt 402
 |||||
Sbjct: 17442069 attgctttttttttgtttt 17442050

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 389 ttttttttttgttttgtttta 408
 |||||

Sbjct: 21286745 ttttttttttgttttgtttta 21286764

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatatt 632
|||||||
Sbjct: 22576808 gaaattaaaaaatatatatt 22576789

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatatt 632
|||||||
Sbjct: 22578674 gaaattaaaaaatatatatt 22578655

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 387 ctttttttttgttttgttt 406
|||||||
Sbjct: 23106652 ctttttttttgttttgttt 23106671

Score = 40.1 bits (20), Expect = 1.5
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 685 aattacaacaataagaacaaaatatttaaatt 716
||||||| || |
Sbjct: 23305306 aattacaacaatacataatatttaaatt 23305337

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 616 attaaaaaatatatatttaa 635
|||||||
Sbjct: 25723660 attaaaaaatatatatttaa 25723679

Score = 40.1 bits (20), Expect = 1.5
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 878 acaacctttagaatttcttttcatttttgggt 909
||||| ||||| ||||| |||||
Sbjct: 25800418 acaacttttagaatttcttaacatttttgggt 25800387

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
|||||||
Sbjct: 30601742 aaattaaaaaatatatattt 30601723

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 172 atccaaataataaaaaaaaaa 191
|||||||
Sbjct: 31363221 atccaaataataaaaaaaaaa 31363202

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
|||||||
Sbjct: 32642997 ttttttttttgttttgtttt 32643016

Score = 40.1 bits (20), Expect = 1.5

Identities = 47/56 (83%)
Strand = Plus / Plus

Query: 813 gaacatcatttttggtttacctgattcttggatatccattttggtgtgtatacgaga 868
 ||||| ||||| | ||||| || ||||| ||||| ||||| |||||
Sbjct: 35041154 gaacatcacttttggttgatctgatttttcgatatttattttggtgtggatatgaga
35041209

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 1102 agtcacactacctttcatctagcttgac 1129
 ||||| ||||| ||||| ||||| |||||
Sbjct: 35043505 agtcacattacctttcatccagcttgac 35043532

Score = 40.1 bits (20), Expect = 1.5
Identities = 35/40 (87%)
Strand = Plus / Plus

Query: 1325 ttgaacaatgcattacacctagtaggttgattttacca 1364
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 35043724 ttgaacaatgcattataccttaaataatggttgattttacca 35043763

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgtttta 409
 ||||| ||||| ||||| ||||| |||||
Sbjct: 35073500 ttttttttgttttgtttta 35073519

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 ||||| ||||| ||||| ||||| |||||
Sbjct: 37615107 ttttttttttgttttgtttt 37615088

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 320 aaatgttcattttttttttcaaaa 343
 |||||
Sbjct: 37921897 aaatgttcattttttttattcaaaa 37921920

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 41572280 ttttttttttgttttgtttt 41572261

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 461 tgtttaaattgaaaacaatattattttt 488
 |||||
Sbjct: 43142003 tgtttaaattgaaaataattttattttt 43141976

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatatata 630
 |||||
Sbjct: 273442 taattcaaattaaaaaatatata 273420

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtattttttatttttt 432

|||||
Sbjct: 458988 gtttgtatttttatttttt 458970

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 558 ttgtatttttattttattt 576
|||||
Sbjct: 1259983 ttgtatttttattttattt 1259965

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 316 ttcaaaatgttcattttttttt 338
||||| |||||||
Sbjct: 1594154 ttcaaaaggttcattttttttt 1594176

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 562 atttttattttatttgatt 580
|||||
Sbjct: 2864927 atttttattttatttgatt 2864945

Score = 38.2 bits (19), Expect = 6.1
Identities = 34/39 (87%)
Strand = Plus / Plus

Query: 621 aaaatatatatttaactgacaagttgacttgaactaaaa 659
||||| ||||||| |||| || |||||||
Sbjct: 3916970 aaaatttatatttaaccacaaatttacttgaactaaaa 3917008

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 419 tattttttattttttttggt 437
 |||||
Sbjct: 4231528 tattttttattttttttggt 4231546

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 419 tattttttattttttttggt 437
 |||||
Sbjct: 5644869 tattttttattttttttggt 5644887

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 415 tttgtattttttattttttt 433
 |||||
Sbjct: 5796369 tttgtattttttattttttt 5796387

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 388 ttttttttttggttttggttttaa 410
 |||||
Sbjct: 6114588 tttttggttttggttttggttttaa 6114610

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 180 aataaaaaaaaaattaatta 198
 |||||
Sbjct: 6738096 aataaaaaaaaaattaatta 6738114

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatattttttattataaaa 1540
 |||||
Sbjct: 7817986 aaatattttttattataaaa 7818004

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 408 aaaattgtttgtatttttatttt 430
 |||||
Sbjct: 8396143 aaaattgtttgcatttttatttt 8396121

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 |||||
Sbjct: 8492753 acaagttaaattgaacttaaataatttaaatt 8492783

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttattttttt 433
 |||||
Sbjct: 8831461 tttgtatttttattttttt 8831443

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
 |||||
Sbjct: 10015500 aaattaaaaaatatatatt 10015518

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
|||||||
Sbjct: 10426227 gtttgtatttttatttttt 10426209

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttatttttt 433
|||||||
Sbjct: 11256194 tttgtatttttatttttt 11256176

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttt 432
|||||||
Sbjct: 11815222 gtttgtatttttatttttt 11815240

Score = 38.2 bits (19), Expect = 6.1
Identities = 34/39 (87%)
Strand = Plus / Minus

Query: 421 tttttattttttttgttattaattgtctatatatttggtt 459
||||||| |||||
Sbjct: 12545020 tttttattttttttctctttaattatctatatatttatggt 12544982

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 131 aaagaaatgcatgtatatg 149

|||||||
Sbjct: 15555583 aaagaaatgcatgtatatg 15555601

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 610 attgaaattaaaaaatata 628
|||||||
Sbjct: 21015667 attgaaattaaaaaatata 21015685

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
|||||||
Sbjct: 21545329 gtttgtatttttatttttt 21545311

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 391 tttttttgttttgtttta 409
|||||||
Sbjct: 22106198 tttttttgttttgtttta 22106216

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
|||||||
Sbjct: 23578645 tttttttttgttttgtttt 23578663

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatTTTTtatttttt 432
|||||
Sbjct: 24818069 gtttgtatTTTTtatttttt 24818051

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 154 aaaatgagagtttttttta 172
|||||
Sbjct: 25075898 aaaatgagagtttttttta 25075880

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 701 acaaaatattttaatttga 719
|||||
Sbjct: 25593355 acaaaatattttaatttga 25593337

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 1204 atcgaactcaagaacaatgtgagagtt 1230
||||| |||||
Sbjct: 25800092 atcgaactcaagaacatggtgagagtt 25800066

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 418 gtatTTTTtattttttttgttattaatt 444
||||| ||||| |||||
Sbjct: 27147129 gtatTTTTtattttttttgttattaatt 27147155

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 321 aatgttcatttttttttttc 339
 |||||||
Sbjct: 27404700 aatgttcatttttttttttc 27404682

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaaacaaa 1544
 ||||||| |||||||
Sbjct: 27510413 aaatatattttttataaaaacaaa 27510391

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 655 taaaatattttaaattacaaaata 677
 ||||||| |||||
Sbjct: 29284555 taaaatattttaaattaaaaata 29284533

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 731 aaaaatttttaaaatacaaa 749
 |||||||
Sbjct: 29420152 aaaaatttttaaaatacaaa 29420134

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatatttaa 635
 |||||||
Sbjct: 29476823 ttaaaaaatatatatatttaa 29476841

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 416 ttgtatatttttatttttttt 434
 |||||
Sbjct: 29568940 ttgtatatttttatttttttt 29568958

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 273 acatttttttatacattta 291
 |||||
Sbjct: 29804898 acatttttttatacattta 29804880

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatattttttattataaaa 1540
 |||||
Sbjct: 30414908 aaatattttttattataaaa 30414890

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tattttttattttatttgattatt 583
 |||||
Sbjct: 31216027 tattttttattttatttgattatt 31216049

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407

|||||
Sbjct: 31324989 tttttttttgttttgtttt 31325007

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttattttttt 433
|||||
Sbjct: 31406526 tttgtatttttattttttt 31406508

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1526 atttttattataaaaacaaa 1544
|||||
Sbjct: 31640199 atttttattataaaaacaaa 31640181

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 385 tgcttttttttttgttttgtttt 407
|||||
Sbjct: 32440034 tgcttttttttttcttttgtttt 32440012

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattatt 583
|||||
Sbjct: 32484763 tatttttattttatttgattatt 32484785

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 567 tattttatttgattattat 585
 |||||||
Sbjct: 32953829 tattttatttgattattat 32953847

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 182 taaaaaaaaaattaattatt 200
 |||||||
Sbjct: 33781457 taaaaaaaaattaattatt 33781475

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||||
Sbjct: 33817767 aaatatattttattataaaa 33817785

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 562 atttttattttatttgatt 580
 |||||||
Sbjct: 35603149 atttttattttatttgatt 35603167

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 561 tatttttattttatttgat 579
 |||||||
Sbjct: 35894546 tatttttattttatttgat 35894528

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaatt 197
 |||||
Sbjct: 36268666 taataaaaaaaaaattaatt 36268648

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 36998618 aaatatattttattataaaa 36998600

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgtttgtttta 408
 |||||
Sbjct: 37223134 ttttttttgtttgtttta 37223152

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 408 aaaattgtttgatatttta 426
 |||||
Sbjct: 37249034 aaaattgtttgatatttta 37249016

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 461 tgtttaaattgaaaacaatattttt 487
 ||||| |||| |||||
Sbjct: 37265662 tgtttaaattttaaagaatattttt 37265688

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaatta 198
 |||||||
Sbjct: 37534755 aataaaaaaaaaattaatta 37534737

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||||
Sbjct: 38452316 tttttttttgttttgtttt 38452298

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 422 ttttattttttttgttatt 440
 |||||||
Sbjct: 40907019 ttttattttttttgttatt 40907037

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaaaattaa 195
 |||||||
Sbjct: 41278735 aataataaaaaaaaaattaa 41278717

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatttttattataaaa 1540

|||||
Sbjct: 41330227 aaatatttttattataaaa 41330245

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatttttattttattt 576
|||||
Sbjct: 41633543 ttgtatttttattttattt 41633561

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 584 ataatacataattaaacaacaac 606
|||||
Sbjct: 41760815 ataattcataattaaacaacaac 41760793

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
|||||
Sbjct: 42795580 ttaaaaaatatatatttaa 42795562

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 412 ttgtttgtatttttatttt 430
|||||
Sbjct: 43440085 ttgtttgtatttttatttt 43440103

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

```
Query: 981      tacatggttatagatacttttccagcgtatacacagaagtgtatgtagttcctataactcatgg
1040          ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 26568431 tatatggttgagatatatttcgaagggtatacacagaagtgtatgtagtttttgtactcatga
26568372
```

Query: 1041 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
1097

|||||
Sbjct: 26568371 tgagcatgcttacaagcaataacaacatgagaatatggcatgtgcaatttctggaatttg
26568312

Query: 1098 tcacagtcacac 1109

|||||
Sbjct: 26568311 tcacagtcacac 26568300

Score = 184 bits (93), Expect = 4e-44
Identities = 271/328 (82%), Gaps = 3/328 (0%)
Strand = Plus / Plus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
1613

|||||
Sbjct: 19072060 atacaataatgaa-aacacacatgatgactacaaatcattaaataataaaaataaggatca
19072118

Query: 1614 aataatttggggaggggggt--cttcaaaacttgattcaagggtcattgtatcatcgaggt
1671

|||||
Sbjct: 19072119 aataaattgggaggggggtttcttcaaaactcgattcaagggtgattgtttcatcgaggt
19072178

Query: 1672 attcaccctaaaccctccaaattcaaagagcttgagaaactgggtgggtgtgcatatg
1731

|||||
Sbjct: 19072179 attcattcaaaccctttcaaattcaaagagcttgtagaaattagtgggtggatgtgcacatg
19072238

Query: 1732 tttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtt
1791

|||
Sbjct: 19072239 tttgtgtgggtgtgtctgcagtggttaatatataattgcaagcatgtgagcttagagattt
19072298

Query: 1792 tcccaaataatagaaaacatagtaattatttcctcatcatcttgagcagcatatgcctgt
1851

|||
Sbjct: 19072299 gctcgaacatagaaaatatagtcattacatcgatcatcatcatgcaacatgcatgcctgt
19072358

Query: 1852 actgaaaacaatcaccaacaatgatac 1879

|||
Sbjct: 19072359 actagccataatcaccaacaatgatac 19072386

Score = 172 bits (87), Expect = 2e-40
Identities = 281/344 (81%), Gaps = 5/344 (1%)
Strand = Plus / Minus

Query: 1022 gtagttcctatactcatgggtgagcatgcttataa---acaacaacatgagaacaaaacat
1078

Sbjct: 27899992 gtagttcctgtactcatagtgaacatgcttacaagcaacaacaacatgagaacaagacat
27899933

Query: 1079 gtgcatttttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaatt
1138

Sbjct: 27899932 gtacaatttttggaacttgccacagtcacaccacctttcatccagcctgactgtgaaatt
27899873

Query: 1139 tctcactagttgaatctctctctccagttaattgtctcctagactaagaattgtatgtcg
1198

Sbjct: 27899872 tccaacgagctgaa--cctctctcgggtttattgtctcctaaatcaagaattgtgtgttg
27899815

Query: 1199 cattaatcgaactcaagaacaatgtgagagtttgcccttttctgtatgtctttcatagcc
1258

Sbjct: 27899814 cattgattgaactcaagaataatgtgagtggttgtctttctatgtttatcttcgatgacc
27899755

Query: 1259 ttgtttaatacttttgtataaacttcaccaaagtgaatcactcttgcgacttctctcccc
1318

Sbjct: 27899754 ttgtttaatacttgcgatataaacttggttagatataaccattgttgcgacttctctccct
27899695

Query: 1319 ctttggttgaacaatgcattacacctagtatagggttgattttac 1362

Sbjct: 27899694 ctttggttgaacaatgcattacactttatatatgttgattttac 27899651

Score = 168 bits (85), Expect = 2e-39
Identities = 279/343 (81%), Gaps = 3/343 (0%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
860

|||||
Sbjct: 28667883 atgcgacacatggaacatgggttttgattgaccgattctcggatatccatttcggtgtgg
28667824

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920

|||||
Sbjct: 28667823 atacgaaaagagacatgacgaccctttgaatttcttttcctgtctaggtcatagcaaattc
28667764

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980

|||||
Sbjct: 28667763 attggctcgtgacctagtgaccaatatgcttcggtgtacaatttccaaacaattctttg
28667704

Query: 981 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
1040

||
Sbjct: 28667703 tatacattgaagacacttttcaacatataaataagatgcatgtagttcttgtactcacga
28667644

Query: 1041 tgagcatgcttataaaca---acaacatgagaacaaaacatgtgcattttttgaaatttg
1097

|||||
Sbjct: 28667643 tgagcatgcttacaagcagcaacaacatgagaacaaggcatgtgaaattttttgaaatttg
28667584

Query: 1098 tcacagtcacactacctttcatctagcttgaccatgaaatttc 1140

|||||
Sbjct: 28667583 ccacagtcacaccacctttcatccagcttgaccatgaaatttc 28667541

Score = 153 bits (77), Expect = 1e-34
Identities = 277/343 (80%), Gaps = 3/343 (0%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
860

|||||
Sbjct: 27895247 atgcgacacatggaacatcacttttggttgatcaaattctcgaatattgattttggtgtgg
27895306

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920

|||||

Sbjct: 27895307 atacaagaggagacaagacaacctttagaatttcttttcttctctgggtcgagacaaatt
27895366

Query: 921 cttggcttgtagacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980

||||| ||||||||| ||| | ||||||||||||||| ||| ||| | |
Sbjct: 27895367 attggctcatgacatggtggtcaatacgcttcattgcacaatttccaaacaatcctcta
27895426

Query: 981 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
1040

|| | || || ||||| || ||| ||||||| ||||||| ||| ||||| |||
Sbjct: 27895427 tatacattggaggcactttccaacgtaaacaatattgtatgtagttcatgtactcgtgg
27895486

Query: 1041 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
1097

| ||||||||| | ||||||||||||||||| | ||| || ||||||| || |||
Sbjct: 27895487 taagcatgcttacaagcaacaacaacatgagaacaaggcttgtaaatTTTTGgaacttg
27895546

Query: 1098 tcacagtcacactacctttcatctagcttgaccatgaaatttc 1140

|| ||||||||| |||||| ||| || | |||||||||||||
Sbjct: 27895547 ccaaagtacaccaccttttatccagtctaaccatgaaatttc 27895589

Score = 137 bits (69), Expect = 9e-30
Identities = 99/109 (90%)
Strand = Plus / Plus

Query: 655 taaaatattttaattacaaaatagatatgaaattacaaacaatagaacaaaatattttaa
714

||||||||||||||||||||| ||| ||||| || |||||||||||||||||||
Sbjct: 32468714 taaaatattttaattacaaaatatataaaattatcaagaatagaacaaaatattttaa
32468773

Query: 715 tttgaaataataacaacaaaaattttaaaatacaacaatatggcataaa 763

||||||| ||||||||||||| ||||||||||||| ||||| |||||
Sbjct: 32468774 tttgaaacaataacaacaaatgtttaaaatacaagaatatgacataaa 32468822

Score = 131 bits (66), Expect = 5e-28
Identities = 262/326 (80%), Gaps = 1/326 (0%)
Strand = Plus / Minus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaataataacaattacaatca
1613

|||||
Sbjct: 28268339 atacaacaatgaaaaacacatatgacgactacaaatgattaaa-aataaaatagcaatca
28268281

Query: 1614 aataatttggggagggggtcttcaaaacttgattcaagggtcattgtatcatcgaggtat
1673

|||||
Sbjct: 28268280 aataatttgggggaatttttttcaaaaatcgattcaagggtcattgctacactgagatat
28268221

Query: 1674 tcacccaaaccctccaaattcaaagagcttgcagaaactgggtgggtgtgcatatggt
1733

|||
Sbjct: 28268220 tcatcaaaaccctctaaattcaaagagctaatagaaattgggtgatggatttgcacatggt
28268161

Query: 1734 tatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtttc
1793

|
Sbjct: 28268160 tgtgtgggtgtgtttgtgttggttaatatataactccaagcatgtaagcctggagatttct
28268101

Query: 1794 ccaaatatagaaaacatagtaattatttctcatcatcttgcagcatacatgccctgtac
1853

||||
Sbjct: 28268100 tcaaacatagaaaacatagtcattacgtcctcatcacctgcaacatgcatgccctgtac
28268041

Query: 1854 tgaaaacaatcaccaacaaatgatac 1879

||
Sbjct: 28268040 tggccacaatcaccaacaaatgatac 28268015

Score = 131 bits (66), Expect = 5e-28
Identities = 111/126 (88%)
Strand = Plus / Minus

Query: 665 aaattacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataa
724

|||||
Sbjct: 28668038 aaattacaaaaaatatataaaattaccaacaatagaacaaaatattttaaattttaaact
28667979

Query: 725 tacaacaaaaatttttaaatacaaaacaatatggcataaaattaatgttgttggcctgagc
784

|||||

Sbjct: 28667978 tacaacaaaatTTTTTaaaatacaaagaatacaacataaatttaaagttggttggttgagc
28667919

Query: 785 ctacac 790
|||||
Sbjct: 28667918 ctacac 28667913

Score = 127 bits (64), Expect = 8e-27
Identities = 88/96 (91%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
698
||||| | |||||||||||||||||||| |||| |||| |||||| | | ||||
Sbjct: 19068634 acaagttaaattgaactaaaatatttaaattaccaaataatataaaaattaccaataata
19068693

Query: 699 gaacaaaatattttaaatttgaaataatacaacaaaa 734
|||||||||||||||||| |||||||||
Sbjct: 19068694 gaacaaaatattttaaatttgaaacaatacaacaaaa 19068729

Score = 119 bits (60), Expect = 2e-24
Identities = 246/305 (80%), Gaps = 6/305 (1%)
Strand = Plus / Plus

Query: 821 ttttggtttacctgattcttggatatccattttggtgtgtatacgagaggagacatgaca
880
|||||| | |||| ||| |||| |||| | | ||||||||||||| ||
Sbjct: 11740119 ttttggttgacctggttctcaaatatctatttttagtatggatacgagaggagacaagatg
11740178

Query: 881 acctttagaatttcttttcatttttgggttggggcaaatcttggcttgtgacatggtga
940
||| |||||||||||||| | |||||| | | |||| | |||| | | |||| |||
Sbjct: 11740179 acccttagaatttcttttcatttgggtcgaacaaatcattggctcgtaacatagtgg
11740238

Query: 941 ccaacatgc--ttcattgcacaatttccaagtaatcatttgtacatgttatagatactt
998
|||| | | |||||| |||| ||| ||| |||| |||| | |||||
Sbjct: 11740239 ccaatatacattcattgcgaattcttcaac-aatccttgtatatgttagacatactt
11740297

Query: 1056 acaacaacatgagaacaaacatgtgcattttttgaaatttgtcacagtcacactacctt
1115

Query: 995 acttttcagcgtatacacaagatgtatgtagttcctatactcatggtgagcatgcttata
1054

Query: 1055 ---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
1111

Query: 697 tagaacaaaatatTTTaaatttgaaataatacaacaaaaattTTTaaaatacaaacatatg
756

Sbjct: 27895121 tagaacaaaatatTTAAATTGaaacaatacaacacaattTTTaaaatacaaagaatatg
27895180

```
Query: 1632      tcttcaaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaa
1691            ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10567005 tctttaaaactcgattcaagggtttattgcttcattgagggtattcatccaaaccctccaaa
10567064
```

```
Query: 1692      ttcaaagagccttgacagaaactgggtgggtggtgtgcatatgtttatgtggg 1741
                || ||||| | |||| | |||| | |||| | |||| | |||| | ||||
Sbjct: 10567065 ttgaaagagatggcaggaattggtggtggtatgtgcacatgtttatgtggg 10567114
```

Score = 105 bits (53), Expect = 3e-20
Identities = 152/185 (82%)
Strand = Plus / Minus

```
Query: 1178      tagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgccttt
1237            |||
Sbjct: 26567079 tagacaaagaactgtgtgttgcgttgatcgaactcaagaatagtgtgagcgtttgccttt
26567020
```

Query: 1238 ttctgtatgtcctttcatagccttggtttaataacttttgtataaaacttcaccaaagtgaatc
1297

Sbjct: 26567019 ctctgtgcatccttgatggccttggttagtacttttgtataaaacttagccaaatgcaagc
26566960

```
Query: 1298      actcttgcgacttctctccccctttggttgaacaatgcattacacctagtataggttgat
1357            | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 26566959 attgttgtggcttatctctctctcttttggttgaacaatgcattgcaccttacatatggttgat
26566900
```

```
Query: 1358      ttac 1362
        ||||
Sbjct: 26566899 ttac 26566895
```

Score = 101 bits (51), Expect = 5e-19
Identities = 154/187 (82%), Gaps = 1/187 (0%)
Strand = Plus / Minus

```
Query: 1184      aagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgt
1243            |||
Sbjct: 28667499 aagaatcgtatgtcgcacgatcgaactcaagaacaatgtgagtgtttatctttttctgt
28667440
```

Query: 1244 atgtctttcatagccttgtttaatacttttgtataaaacttcaccaaagtgaatcactctt
1303

Sbjct: 28667379 gtgacttatctccctcttttggtgaa-aatgcattacaccttagatatggtgattttact
28667321

```
Query: 1364      aacacac 1370
           |||||
Sbjct: 28667320 aacacac 28667314
```

Score = 99.6 bits (50), Expect = 2e-18
Identities = 94/108 (87%), Gaps = 3/108 (2%)
Strand = Plus / Plus

Sbjct: 19069049 gtatacacaggatgtatgtagttcctatactcatggagaacatgcttacaagcaacaaca
19069108

```
Query: 1062      acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacac 1109
                |||||
Sbjct: 19069109 acatgagaacaagqcatatgcaattttctggaatttgtcagaqtcacac 19069156
```

Score = 97.6 bits (49), Expect = 8e-18
Identities = 77/85 (90%), Gaps = 1/85 (1%)
Strand = Plus / Minus

Sbjct: 28271879 caatagaa-aaaatattttaatttgaacaatacaataaaaatttttaaatacaagaat
28271821

```
Query: 754          atggcataaaattaatgttgttggc 778
                ||| ||||| ||| ||| ||| ||| |||
Sbjct: 28271820    atgqcataaatattaacgtttgttqgc 28271796
```

Score = 77.8 bits (39), Expect = 7e-12

Identities = 96/115 (83%)
 Strand = Plus / Plus

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag 1228
 |||||
 Sbjct: 19069194 attgtctcctggaccaagaaccgtatgtcgcattgattgaactcaagaatagtgtgagcc 19069253

Query: 1229 tttagcctttttctgtatgtctttcatagccttggttaataacttttgtataaaactt 1283
 |||||
 Sbjct: 19069254 tttagcctttctctgtgtgtcttcaatggccttggttagtacttgggtataaaactt 19069308

Score = 75.8 bits (38), Expect = 3e-11
 Identities = 50/54 (92%)
 Strand = Plus / Minus

Query: 703 aaaatattttaaatttgaaataatacaacaaaaattttaaaatacaaaacaatatg 756
 |||||
 Sbjct: 26568730 aaaatatttacatttgaattaatacaacaaaaattttaaaatacaaaacaatatg 26568677

Score = 75.8 bits (38), Expect = 3e-11
 Identities = 155/193 (80%), Gaps = 2/193 (1%)
 Strand = Plus / Plus

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag 1228
 |||||
 Sbjct: 27895616 attgtctcctaacaagaactgtatgtcacatcgatcgaactcaagaacaatgtgagtg 27895675

Query: 1229 tttagcctttttctgtatgtctttcatagccttggttaataacttttgtataaaacttcacca 1288
 |||||
 Sbjct: 27895676 tttagcctttctctatgcattttctatgaccttggttaataacttgcgtataaaacttgggtca 27895735

Query: 1289 aatgtaatcactcttgcgacttctctcccccttgggttgaacaatgcattacacctagta 1348
 |||||
 Sbjct: 27895736 gatgtaagcattgttgtgacttctct--ttttttgttgaataatgcattacaccttata 27895793

Query: 1349 taggttgatttta 1361
|| |||||
Sbjct: 27895794 tatgttgatttta 27895806

Score = 69.9 bits (35), Expect = 2e-09
Identities = 64/73 (87%), Gaps = 3/73 (4%)
Strand = Plus / Minus

Query: 1004 cgtatacacaagatgtatgtagttcctatactcatgggtgagcatgcttata---aacaac
1060
||||| |||| |
Sbjct: 28271548 cgtatgcacacgatgtatgtagttcatatactcatgggtgagcatccttacaagtagcaac
28271489

Query: 1061 aacatgagaacaa 1073
|||||
Sbjct: 28271488 aacatgagaacaa 28271476

Score = 69.9 bits (35), Expect = 2e-09
Identities = 59/67 (88%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgtatac
864
||||| |||| |
Sbjct: 42697439 gacacatggaacatcattttgttgacttggttctctcatatccattttgggtgtgtatac
42697498

Query: 865 gagagga 871
|||||
Sbjct: 42697499 gagagga 42697505

Score = 67.9 bits (34), Expect = 7e-09
Identities = 148/186 (79%)
Strand = Plus / Plus

Query: 1156 ctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
1215
||||| |||| |
Sbjct: 11740456 ctctctcgagtttattgtctcctggaccaagaactgtgtgtcacggttgattgaactcaat
11740515

Query: 1216 aacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgt
1275
Sbjct: 11740516 aatagtgtgagtgtttgcctctctctgtgcgtcttcgatgcccttgtttagtgcttgc
11740575

Query: 1276 ataaacttcaccaaagtgaatcactcttgcgacttctctccccctttgggtgaacaatgc
1335
Sbjct: 11740576 ataaacttgccagatgcaagattgttgcaacttctctccctcttttggtgaacaatgc
11740635

Query: 1336 attaca 1341
Sbjct: 11740636 attaca 11740641

Score = 67.9 bits (34), Expect = 7e-09
Identities = 169/212 (79%), Gaps = 4/212 (1%)
Strand = Plus / Minus

Query: 1207 gaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaa
1266
Sbjct: 27899633 gaactcaagaataatgtgagcatttgcctttctatgtttatcttcaatgtccttgtttag
27899574

Query: 1267 tacttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctccccctttgggt
1326
Sbjct: 27899573 tacttgcttataaaacttgactagatataaccatttttgtgacttctctccctctt--gtt
27899516

Query: 1327 gaacaatgcattacacctagtaggttgattttacca--acacacattgccagattttg
1384
Sbjct: 27899515 gaacaatgcattacactttatatatgttgattttactagtgcacttattggcaaatttct
27899456

Query: 1385 tgttttcttgagtaccaaattaattaactcag 1416
Sbjct: 27899455 taatttcttgagtaccaaattaatcaactcag 27899424

Score = 65.9 bits (33), Expect = 3e-08
Identities = 45/49 (91%)

Strand = Plus / Minus

```
Query: 1420      ccccatcgccagccaccatcccatgcgagagtccacttttcttgtggaa 1468
                |||||  |||||||||||||||||||  |||  |||||||||||||
Sbjct: 26565847 ccccatcgttagccaccatcccatgcgagaatccaattttcttgtggaa 26565799
```

Score = 65.9 bits (33), Expect = 3e-08
Identities = 109/133 (81%), Gaps = 1/133 (0%)
Strand = Plus / Plus

```
Query: 1198      gcattaatcgaactcaagaacaatgtgagagtttgcctttttct-gtatgtctttcatag
1256
                |||||  |||  |||||||||||  |  |||||||||  |||||||||  |  ||  |||||  |||||
Sbjct: 42697688 gcattgatcaaactcaagaatatagtgagagttggccttttttttgtgagtcttccatag
42697747
```

```
Query: 1257      ccttgtttaataacttttgtataaacttcaccaaagttaatcactcttgcgacttctctcc
1316
                |||||||||  ||  |||||||||||||  |  |  ||  |||||  |  |||  |||||||||
Sbjct: 42697748 ccttgtttagtatttttgtataaacatggtttagatctaatacttgggtgacttctctcc
42697807
```

```
Query: 1317      ccctttgggttgaa 1329
                |  |||||||||
Sbjct: 42697808 ctctttgggttgaa 42697820
```

Score = 60.0 bits (30), Expect = 2e-06
Identities = 51/58 (87%)
Strand = Plus / Minus

```
Query: 1432      ccaccatcccatgcgagagtccacttttcttgtggaatcttcctaagctaattaattg
1489
                |||||||||  ||  |||||||||||||  |||||||||||||||||  ||  |||  |||||||||
Sbjct: 28667240 ccaccatctcacgagagatccatttttcttgtggaatctcactgagccaattaattg
28667183
```

Score = 60.0 bits (30), Expect = 2e-06
Identities = 36/38 (94%)
Strand = Plus / Plus

```
Query: 556      ctttgtatttttattttatttgattattataatacata 593
                |||||||||  |||||||||||||||||  |||||||||
```

Sbjct: 32464760 ctttgtatctttcattttatttgattattaaaatacata 32464797

Score = 60.0 bits (30), Expect = 2e-06
Identities = 83/100 (83%), Gaps = 3/100 (3%)
Strand = Plus / Plus

Query: 1028 cctatactcatggtgagcatgcttata---aacaacaacatgagaacaaaacatgtgcat
1084

|||||
Sbjct: 42697517 cctatactcatggtgagcatgcttacaagtagcaacaacatgcgaacaaggcatgtacac
42697576

Query: 1085 tttttgaaatttggtcacagtcacactacctttcatctagc 1124

|||||
Sbjct: 42697577 cttttggaatttactacaatcacactacctttgatctagc 42697616

Score = 56.0 bits (28), Expect = 3e-05
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 165 tttttttatccaaataataaaaaaaaaaattaattatttaccctaaa 208

|||||
Sbjct: 13163223 tttttttaccctaaaataatacaataaattaattatttaccctaaa 13163180

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 554 tcctttgtatcttttattttatttgattattataatacata 593

|||||
Sbjct: 19068563 tccttcgtatctttcattttatttgattattaaaatacata 19068602

Score = 56.0 bits (28), Expect = 3e-05
Identities = 40/44 (90%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatattttaattacaaaatagatat 682

|||||
Sbjct: 27895045 acaagttgaattaaactaaaatattttaattacaaatataatat 27895088

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 554 tcctttgtatTTTTATTTTATTTgattattataatacata 593
|||||
Sbjct: 28668118 tcctttgtatTTTcattttattggattattaaaatacata 28668079

Score = 56.0 bits (28), Expect = 3e-05
Identities = 40/44 (90%)
Strand = Plus / Plus

Query: 165 tttttttatccaaataataaaaaaaaaattaattatttacccaaa 208
|||||
Sbjct: 32463630 tttttttacccaaataatacaataaattaaatatttacccaaa 32463673

Score = 54.0 bits (27), Expect = 1e-04
Identities = 78/94 (82%), Gaps = 2/94 (2%)
Strand = Plus / Plus

Query: 1325 ttgaacaatgcattacacctagtatataggttgattttaccaacacac--attgccagattt
1382
|||||
Sbjct: 10563626 ttgaacaatgcattacaccttacatatgttgattttactaacgcacctattggcagattt
10563685

Query: 1383 tgtgttttcttgagtaccaaattaattaactcag 1416
|| |||||
Sbjct: 10563686 cttgatttcttcagtatcgaattaatcaactcag 10563719

Score = 54.0 bits (27), Expect = 1e-04
Identities = 36/39 (92%)
Strand = Plus / Minus

Query: 1306 gacttctctccccctttgggttgaacaatgcattacacct 1344
|||||
Sbjct: 28271245 gacttctcttctcttttgggttgaacaatgcattacacct 28271207

Score = 50.1 bits (25), Expect = 0.002
Identities = 67/80 (83%), Gaps = 2/80 (2%)
Strand = Plus / Plus

```
Query: 1032      tactcatggtgagcatgcttataaacaacaac--atgagaacaaaacatgtgcatttttt
1089
                ||||||| ||||||||||| || ||||||| ||||||| || ||
Sbjct: 10561469 tactcatgatgagcatgcttacaagcaacaacgaatgagaataaggtatgtgcaatttct
10561528
```

```
Query: 1090      gaaatttgtcacagtcacac 1109
                |||||||||||||||
Sbjct: 10561529 agaatttgtcacagtcacac 10561548
```

Score = 48.1 bits (24), Expect = 0.006
Identities = 48/56 (85%)
Strand = Plus / Plus

```
Query: 1306      gacttctctcccccttttggttgaacaatgcattacacctagtaggttgatttta 1361
                ||||||||||| |||| ||||||||||| ||||||||| || |||||||||||
Sbjct: 19069330 gacttctctccctcttttttttgaacaatgtattacaccttagatatgttgatttta
19069385
```

Score = 48.1 bits (24), Expect = 0.006
Identities = 42/48 (87%)
Strand = Plus / Minus

```
Query: 1416      gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttg 1463
                ||||| |||| | ||||||||||||||| || ||| |||||||
Sbjct: 27899407 gtgtcctcatcgtcggccaccatcccatgcaagaatccatttttcttg 27899360
```

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Plus

```
Query: 639       acaagttgacttgaactaaaatattttaatt 669
                ||||||| || |||||||||||||||
Sbjct: 10561103 acaagttgaatttaactaaaatattttaatt 10561133
```

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 ||||||| | |||||||||||||||||
Sbjct: 11739962 acaagttaaattgaactaaaatatttaaatt 11739992

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 1388 tttcttgagtaccaaattaatt 1409
 |||||||||||||||||||
Sbjct: 27895827 tttcttgagtaccaaattaatt 27895848

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatattt 664
 ||||||| | |||||||||||||||||
Sbjct: 28271914 acaagttgaattgaactaaaatattt 28271889

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 421 tttttattttttttggtatttaa 442
 |||||||||||||||||||
Sbjct: 42033882 tttttattttttttggtatttaa 42033861

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgttttaaa 410
 |||||||||||||||||||
Sbjct: 264649 tttttttgttttgttttaaa 264669

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1524 atatTTTTtattataaaacaaa 1544
 |||||
Sbjct: 3762851 atatTTTTtattataaaacaaa 3762831

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattta 634
 |||||
Sbjct: 5186952 aaattaaaaaatatatattta 5186932

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttta 408
 |||||
Sbjct: 7757828 ttttttttttgttttgtttta 7757808

Score = 42.1 bits (21), Expect = 0.39
Identities = 37/41 (90%), Gaps = 1/41 (2%)
Strand = Plus / Plus

Query: 516 tgcataTTTTatgTTTTatcatttttt-aagagttgaaatc 555
 ||||| |||||
Sbjct: 9618818 tgcataTTTTtggttttatcattttttgaatagttgaaatc 9618858

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 909 ttggggcaaattcttggcttg 929

|||||
Sbjct: 12557141 ttggggcaaattccttggttg 12557121

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaaaatatatatttaa 635
|||||
Sbjct: 19148883 ttgaaattaaaaaatatataattaa 19148859

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatttaa 635
|||||
Sbjct: 27688291 aattaaaaaatatatatttaa 27688311

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattattataata 589
||||| |||||
Sbjct: 27894979 tattttcattttatttgattattaaaata 27895007

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1641 cttgattcaagggttcattgta 1661
|||||
Sbjct: 38590887 cttgattcaagggttcattgta 38590867

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 1525 tattttttattataaaaacaaac 1545
 ||||||||||||||||||
Sbjct: 45933044 tattttttattataaaaacaaac 45933064

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 273 acattttttttatacatttagaaatt 297
 |||||||||||||| ||||||||||
Sbjct: 47377942 acattttttttatatatttagaaatt 47377966

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatttta 634
 ||||||||||||||||||
Sbjct: 999284 aattaaaaaatatatatttta 999303

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 ||||||||||||||||||
Sbjct: 2992171 ttttttttttgttttgtttt 2992190

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 1583 tacaaatcattaaataatacaatt 1606
 |||||||||||||||||| ||||
Sbjct: 8259093 tacaaatcattaaataataaaaatt 8259116

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttatttttttt 434
 |||||
Sbjct: 8361283 tttgtatttttatttttttt 8361264

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 557 tttgtatttttatttttattt 576
 |||||
Sbjct: 9172514 tttgtatttttatttttattt 9172495

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 561 tatttttattttatttgatt 580
 |||||
Sbjct: 9442372 tatttttattttatttgatt 9442353

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 409 aaattgtttgtatttttatttttt 432
 |||||
Sbjct: 17497717 aaattgtttttatttttatttttt 17497694

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 19739954 ttttttttttgttttgtttt 19739973

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 412 ttgtttgtatTTTTATTTTTTTG 435
 ||||| |||||
Sbjct: 19933404 ttgtttgtatTTTTATTTTTTTG 19933381

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 549 tgaaatcctttgtatTTTTATTTATTT 576
 ||||| ||||| |||||
Sbjct: 25111541 tgaaatcctttgtaatTTTATTTcattt 25111514

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 415 tttgtatTTTTATTTTTTTT 434
 ||||| ||||| |||||
Sbjct: 27696495 tttgtatTTTTATTTTTTTT 27696514

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 662 tttaaattacaaaatagata 681
 ||||| ||||| |||||
Sbjct: 27721373 tttaaattacaaaatagata 27721392

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 421 tttttatTTTTTTTgttattaatt 444

|||||
Sbjct: 29845108 tttttatttttttttgctattaatt 29845131

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 393 tttttgttttgtttttaaaattggt 416
|||||
Sbjct: 32531215 tttttgttttttttttaaaattggt 32531238

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1078 tgtgcatttttttgaaatttg 1097
|||||
Sbjct: 39788075 tgtgcatttttttgaaatttg 39788094

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaaaattaat 196
|||||
Sbjct: 42113893 aataataaaaaaaaaattaat 42113874

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 197 tatttacccaaaaaattatt 216
|||||
Sbjct: 42544102 tatttacccaaaaaattatt 42544121

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 122 aaaaagaaaaaagaaatgca 141
 |||||
Sbjct: 44317471 aaaaagaaaaaagaaatgca 44317490

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 45563774 aaattaaaaaatatatattt 45563755

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 610 attgaaattaaaaaatatatattt 633
 ||||| |||||
Sbjct: 48051218 attgaagttaaaaaaatatatattt 48051195

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 699 gaacaaaatattttaatttgaaat 722
 ||||| |||||
Sbjct: 48152451 gaacaaaatattttaattttaaat 48152474

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 422 ttttattttttttgttatta 441
 |||||
Sbjct: 48203160 ttttattttttttgttatta 48203179

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatattt 633
|||||||
Sbjct: 101714 aattaaaaaatatatattt 101696

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattt 633
|||||||
Sbjct: 208297 aattaaaaaatatatattt 208315

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 416 ttgtatttttatttttttt 434
|||||||
Sbjct: 464120 ttgtatttttatttttttt 464138

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 404 ttttaaaattgtttgtattttta 426
|||||||
Sbjct: 1629166 ttttaaaattgtttttattttta 1629144

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaacaaa 1544
|||||||
Sbjct: 2567023 aaatatattttattataaaacaaa 2567045

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 166 ttttttatccaaataataaaaaa 188
||||||| |||||||||
Sbjct: 2790836 ttttttattcaaataataaaaaa 2790814

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaatt 197
||||||| |||||||
Sbjct: 3395217 taataaaaaaaaaattaatt 3395199

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 188 aaaattaattattttacccaaaaa 210
||||||| |||||||
Sbjct: 3525898 aaaattaattattttatccaaaaa 3525920

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 184 aaaaaaaattaattatttta 202
||||||| |||||||
Sbjct: 4203550 aaaaaaaattaattatttta 4203568

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtattttttattttattt 576

|||||
Sbjct: 4288624 ttgtatattttatattttatt 4288642

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
|||||
Sbjct: 5767163 aaattaaaaaatatatatt 5767145

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
|||||
Sbjct: 5867743 aaatatattttattataaaa 5867761

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 657 aaatatatttaaaattacaaaataga 679
||||| |||||
Sbjct: 6748490 aaatatatttaaaataacaaaataga 6748468

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 416 ttgtatattttatatttttttt 434
|||||
Sbjct: 7119696 ttgtatattttatatttttttt 7119714

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatTTTTtatttttt 432
|||||
Sbjct: 7413661 gtttgtatTTTTtatttttt 7413679

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatTTTTtattataaaa 1540
|||||
Sbjct: 7582356 aaatatTTTTtattataaaa 7582374

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 419 tatttttattTTTTttgtt 437
|||||
Sbjct: 7627836 tatttttattTTTTttgtt 7627854

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 695 aatagaacaaaatatttaaattt 717
||||| |||||
Sbjct: 8654039 aatagaaaaaaatatttaaattt 8654017

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 184 aaaaaaaattaattatttta 202
|||||
Sbjct: 9177402 aaaaaaaattaattatttta 9177420

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttttgttttgtttt 407
 |||||
Sbjct: 9527284 ttttttttttgttttgtttt 9527266

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 417 tgtattttttattttttttg 435
 |||||
Sbjct: 10236936 tgtattttttattttttttg 10236954

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 618 taaaaaatatatatattaac 636
 |||||
Sbjct: 11291468 taaaaaatatatatattaac 11291450

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 736 ttttaaaatacaaacaata 754
 |||||
Sbjct: 12496685 ttttaaaatacaaacaata 12496703

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 379 cttaattgctttttttttt 397
 |||||
Sbjct: 12571431 cttaattgctttttttttt 12571449

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatatttttattataaaa 1540
|||||||
Sbjct: 12789119 aaatatatttttattataaaa 12789101

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 883 ctttagaatttcttttcattttt 905
|||||||
Sbjct: 13756895 ctttagaatttctttttattttt 13756873

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 618 taaaaaatatatattttaac 636
|||||||
Sbjct: 14548922 taaaaaatatatattttaac 14548904

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatatttttattataaaa 1540
|||||||
Sbjct: 15692588 aaatatatttttattataaaa 15692606

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaatta 198

|||| ||||||||||||||||
Sbjct: 16004199 aaattataaaaaaaattaatta 16004221

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
||||||||||||||||||
Sbjct: 17950064 tttttttttgttttgtttt 17950046

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 611 ttgaaattaaaaaatatatattt 633
|||||||| |||||||||||||
Sbjct: 18873874 ttgaaattcaaaaatatatatattt 18873896

Score = 38.2 bits (19), Expect = 6.1
Identities = 85/107 (79%)
Strand = Plus / Plus

Query: 804 cgacacatggaacatcattttgggtttacctgattcttggaatatccattttgggtgtgtata
863
|||||| | ||||| |||||| || ||||| ||||||||| || || ||
Sbjct: 19068848 cgacacacgaaacatcgctttgggttaactcgattctcagatatccatttcggtttggata
19068907

Query: 864 cgagaggagacatgacaacctttagaatttcttttcatttttgggtt 910
|||||||| | || ||| ||||||| |||| | |||||||
Sbjct: 19068908 ggagaggagataggatgacccttagaattgtttttcttgtttgggtt 19068954

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 724 atacaacaaaaatttttaa 742
||||||||||||||||||
Sbjct: 19157072 atacaacaaaaatttttaa 19157090

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 412 ttgtttgtatttttatttttttt 434
 |||||
Sbjct: 22352566 ttgtttgtatttttatttttttt 22352544

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 25987076 tttttttttgttttgtttt 25987094

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 179 taataaaaaaaaaattaatt 197
 |||||
Sbjct: 28577204 taataaaaaaaaaattaatt 28577222

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgatatttttatttttt 432
 |||||
Sbjct: 29104896 gtttgatatttttatttttt 29104914

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatattt 633
 |||||||
Sbjct: 29449129 aattaaaaaatatatatattt 29449147

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatattt 633
 |||||||
Sbjct: 29644890 aattaaaaaatatatatattt 29644908

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 183 aaaaaaaaaattaattattt 201
 |||||||
Sbjct: 30402124 aaaaaaaaaaattaattattt 30402106

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 557 tttgtattttttattttatt 575
 |||||||
Sbjct: 31412833 tttgtattttttattttatt 31412851

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttt 406
 |||||||
Sbjct: 33356400 ttttttttttggttttgttt 33356382

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

```
Query: 415      tttgtatTTTTtattttttt 433
              |||||
Sbjct: 34386009 tttgtatTTTTtattttttt 34386027
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 561      tatttttattttatttgat 579
              |||||
Sbjct: 38136209 tatttttattttatttgat 38136191
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

```
Query: 418      gtatttttattttttttgttattaatt 444
              ||||| ||||| |||||
Sbjct: 38880440 gtattttaattttttttgtttttaatt 38880414
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 419      tatttttattttttttgtt 437
              |||||
Sbjct: 40611784 tatttttattttttttgtt 40611802
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 381      taattgctttttttttgt 399
              |||||
Sbjct: 41439907 taattgctttttttttgt 41439889
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 43290595 tttttttttgttttgtttt 43290577

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaattat 201
 |||||
Sbjct: 44911779 taataaaaaaaaaatttaattat 44911757

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaattat 201
 |||||
Sbjct: 44918359 taataaaaaaaaaatttaattat 44918337

Score = 38.2 bits (19), Expect = 6.1
Identities = 31/35 (88%)
Strand = Plus / Plus

Query: 410 aattgtttgtatTTTTTTTTTgttattaatt 444
 |||| ||| |||||
Sbjct: 45126932 aattTTTTTTTatTTTTTcatgttattaatt 45126966

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 267 ttaattacatTTTTTTTata 285
 |||||
Sbjct: 45162491 ttaattacatTTTTTTTata 45162473

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 324      gttcatttttttttttcaaa 342
              |||||
Sbjct: 45647336 gttcatttttttttttcaaa 45647318
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 183      aaaaaaaaaattaattatatt 201
              |||||
Sbjct: 45865956 aaaaaaaaaattaattatatt 45865938
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 185      aaaaaaattaattattttac 203
              |||||
Sbjct: 46571646 aaaaaaattaattattttac 46571628
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 615      aattaaaaaatatatattt 633
              |||||
Sbjct: 47409482 aattaaaaaatatatattt 47409464
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatattttaact 637
|||||||
Sbjct: 47828944 aattaaaaaatatatattttaact 47828922

>[gb|CM000848.1](#) Glycine max chromosome 15, whole genome shotgun sequence
Length = 50939160

Score = 180 bits (91), Expect = 7e-43
Identities = 421/527 (79%), Gaps = 8/527 (1%)
Strand = Plus / Minus

Query: 839 ttggatatccattttggtgtgtatacgagaggagacatgacaacctttagaatttctttt
898
|||||||
Sbjct: 48213994 ttggatatccttttcaatgtggatacaagaggagacaagatgatccttagaatttctttt
48213935

Query: 899 catttttgggttggggcaaatcttggcttgtgacatggtgaccaacatgcttcattgca
958
| | | |
Sbjct: 48213934 cttctctatgttggggtaaactattggctcgtgacatggttagccaatatgcttcattgca
48213875

Query: 959 caatttcccaagtaatcatttgtacatgttatagatacttttcagcgtatacacaagatg
1018
|||||
Sbjct: 48213874 caattctcaaacaatcctct-tatatattggagacactttccaacatatacatagcatg
48213816

Query: 1019 tatgtagttcctataactcatggtgagcatgcttataaacaacaaca---tgagaacaaaa
1075
|
Sbjct: 48213815 tttgtagttcctgtactcatggtgagcatgcttacaagcagcaacaatatgagaacaaga
48213756

Query: 1076 catgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaa
1135
|
Sbjct: 48213755 c--gtgcaacttttggaaatttgccacagccacaccacctttcatccagtttgatcgtgaa
48213698

Query: 1136 atttctcactagttgaatctctctctccagttaattgtctcctagactaagaattgtatg
1195
|
Sbjct: 48213697 aattctagcagctgaatctttctcgg--gtttattgtctcctagaccaagaatcgtgtg
48213640

Query: 1196 tgcgattaatcgaactcaagaacaatgtgagagtttgcccttttctgtatgtctttcata
 1255

||||| ||||||||||||||||||||| ||| ||| ||| ||| ||| |||
 Sbjct: 48213639 tgcgcatcgatcgaactcaagaacaatgtgagtggttatctttctctatgtgtctttgatg
 48213580

Query: 1256 gccttgtttaataacttttgtataaaacttcaccaaataatcactcttgcgacttctctc
 1315

||||||| ||||| ||||||||| | || ||||||| || | ||||| |||||||||
 Sbjct: 48213579 accttgtttagtactttaaataaaacttgatcagatgtaagcattgttgcaacttctctt
 48213520

Query: 1316 cccctttgggttgaacaatgcattacacctagtatagggttgattttac 1362
 || ||||| ||||||||||||||||||||| | || |||||||||

Sbjct: 48213519 cctcttttgttgaacaatgcattacaccttatttatgttgattttac 48213473

Score = 149 bits (75), Expect = 2e-33
 Identities = 214/259 (82%), Gaps = 1/259 (0%)
 Strand = Plus / Minus

Query: 1622 ggggagggggtcttcaaaacttgattcaagggttcattgtatcatcgaggatttcacccaa
 1681

||||||| ||||||||| ||||||||| ||||||||| ||||| ||||||||| |||
 Sbjct: 48210576 ggggaggggttcttcaaaactcgattcaagggttcattgtttcattaagggtattcattcaa
 48210517

Query: 1682 accctccaaattcaaagagcttgcag-aaactgggtggtggttgtgcatatgtttatgtgg
 1740

||||||||| ||||||| ||||| ||| ||| ||| ||| ||| ||||| |||||||||
 Sbjct: 48210516 accctccaaattcaaaaagcttacagaaaattggtgttggtggtgcatatgtttatgtgg
 48210457

Query: 1741 gtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaata
 1800

||||||| | ||||| ||| ||| ||||| ||||||||| ||||| ||| ||| ||| |||
 Sbjct: 48210456 gtgtgtttgtggtggttaatatataacttaaggcatgtgaggttgagacttgcttgaaca
 48210397

Query: 1801 tagaaaacatagtaattatttcctcatcatcttgagcagacatgccttgactgaaaac
 1860

||||||||| ||||| || ||||||| ||||| || ||||||| ||||||| ||||| |
 Sbjct: 48210396 tagaaaacatagtcattacgtctgcatcatcgagcagtatgtatgcctatactgacct
 48210337

Query: 1861 aatcaccaacaaatgatac 1879
 ||| |||||||

Sbjct: 48210336 aattaccaacaaatgatac 48210318

Score = 119 bits (60), Expect = 2e-24
 Identities = 152/182 (83%), Gaps = 3/182 (1%)
 Strand = Plus / Minus

Query: 608 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa
 667
 Sbjct: 11787340 taattgaaatttataaaa--atatgtaactgacaagttgaattgaattaaaatattttaa
 11787284

Query: 668 ttacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataatac
 727
 Sbjct: 11787283 ataaaaaaatatttttaaattaccaaacaacataaaaaaatattttaaatttgaaacaatac
 11787224

Query: 728 aacaaaaatttttaaaatacaaaacaatatggcataaaattaatggttggtggcctgagccta
 787
 Sbjct: 11787223 aacaaaaaagttaaacaagaaagaatatgacataaattcaatggttggtggcctgagccta
 11787164

Query: 788 ca 789
 Sbjct: 11787163 ca 11787162

Score = 103 bits (52), Expect = 1e-19
 Identities = 88/100 (88%)
 Strand = Plus / Minus

Query: 1647 tcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaagagcttgca
 1706
 Sbjct: 11783751 tcaagattcattatttcacatcgagggtattcatctaaaccctccaaattcaaagagcttagta
 11783692

Query: 1707 gaaactgggtgggtggttgatgatgtttatgtgggtgtgt 1746
 Sbjct: 11783691 gaaattgggtgggtgaatgtgcacatgtttgtgtgggtgtgt 11783652

Score = 91.7 bits (46), Expect = 5e-16

Identities = 91/106 (85%)
Strand = Plus / Plus

Query: 684 aaattacaaacaatagaacaaaaatatttaaatttgaaataatacaacaaaaattttaaaa
743
||||| ||||| | ||||||||||||||||||| | ||||| |||| ||| |||
Sbjct: 24718278 aaattaccaacaacaaaaacaaaatatttaaatttgaatttatacaataaaaattttataaa
24718337

Query: 744 tacaacaatatggcataaaaattaatggttggcctgagcctaca 789
||||| ||||| |||| | ||||||||| |||| | |||||||||
Sbjct: 24718338 tacaacaatatgacatacatttaatggttggccttaagcctaca 24718383

Score = 89.7 bits (45), Expect = 2e-15
Identities = 91/105 (86%), Gaps = 1/105 (0%)
Strand = Plus / Minus

Query: 685 aattacaaacaatagaacaaaaatatttaaatttgaaataatacaacaaaaattttaaaat
744
||||| ||||||| || ||||||||||||||||||| ||||||| |||| |||||||||
Sbjct: 48214169 aattaccaacaataaaaataaaaatatttaaatttgaaacaatacaacccaaa-tttaaaat
48214111

Query: 745 acaaacaatatggcataaaaattaatggttggcctgagcctaca 789
|| || ||||| |||||| ||||||||||||| | |||| |||||
Sbjct: 48214110 acgaagaatattacataaatttaatggttggacttgagtctaca 48214066

Score = 87.7 bits (44), Expect = 7e-15
Identities = 53/56 (94%)
Strand = Plus / Minus

Query: 1568 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttgg 1623
||||| ||||||| ||||||| ||||||| |||| ||||||| |||||
Sbjct: 11783844 aacacacatgacaactacaaatcattaaataataaaaataacaatcaaataaattgg
11783789

Score = 73.8 bits (37), Expect = 1e-10
Identities = 234/300 (78%), Gaps = 6/300 (2%)
Strand = Plus / Minus

Query: 1586 aaatcattaaataatacaattacaatcaaataatttggggaggggg-----tcttcaaa
1639

Query: 1289 aatgtaatcactcttgcgacttctctcccccttgggtgaacaatgcattaca 1341

Sbjct: 37684458 gatgcaagcattgctgagacttctctccctcttttggtgaacaatgcattaca
37684406

Score = 73.8 bits (37), Expect = 1e-10
Identities = 193/245 (78%)
Strand = Plus / Minus

Query: 808 acatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatacgag
867

|||| |||||||||||||||| | ||| |||| | ||||||||| |||| | ||| ||
Sbjct: 37684939 acatagaacatcattttggttgatctggttctcagatatccatttcagtgtgggtacaag
37684880

Query: 868 aggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattcttggct
927

| |||||| | | ||| |||||||||||||||| | | | ||| | || | || | |||||
Sbjct: 37684879 aagagacaagaagacccttagaatttcttttcttatctaggtcgaggtagatcattggct
37684820

Query: 928 tgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtacatgt
987

| ||||||||| |||| | | ||| |||||||||||| ||| |||| | |||| | ||
Sbjct: 37684819 tatgacatggtggccaatacgaattcggtgcacaatttttcaaacaatcctctgtatacgt
37684760

Query: 988 tatagatacttttcagcgtatacacagaatgtatgtagttcctatactcatgggtgagcat
1047

| ||| |||| | | |||| | ||| |||||||||||| |||||||||||||||||
Sbjct: 37684759 tggagacactttccaattcatacaaaggatatatgtagttcctgtactcatgggtgagcat
37684700

Query: 1048 gctta 1052
|||||

Sbjct: 37684699 gctta 37684695

Score = 71.9 bits (36), Expect = 4e-10
Identities = 69/80 (86%)
Strand = Plus / Minus

Query: 1800 atagaaaacatagtaattatttctcatcatcttgcagcatacatgccctgtactgaaaa
1859

|||||||||||||||||| | |||||||| | ||| ||| |||| | |||||||| |
Sbjct: 11783598 atagaaaacatagtaattacattctcatcattgtgcaacatgcatgtcctgtactggcca
11783539

Query: 1860 caatcaccaacaaatgatac 1879
|||||||
Sbjct: 11783538 caatcaccaacaaatgatac 11783519

Score = 69.9 bits (35), Expect = 2e-09
Identities = 41/43 (95%)
Strand = Plus / Minus

Query: 554 tcctttgtatTTTTATTTTATTtgattattataatacataatt 596
||||||| |||||
Sbjct: 11787378 tcctttgtatTTTcattttatttgattattaaaatacataatt 11787336

Score = 69.9 bits (35), Expect = 2e-09
Identities = 53/59 (89%)
Strand = Plus / Minus

Query: 1431 gccaccatcccatgCGAGAGTccacttttcttGTGgaatcttcctaagctaattaattg
1489
|||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 37684305 gccatcatcccatagGAGAGTccatttttcttGTGgaatctcactaagccaattaattg
37684247

Score = 67.9 bits (34), Expect = 7e-09
Identities = 65/74 (87%), Gaps = 1/74 (1%)
Strand = Plus / Minus

Query: 703 aaaatatttaaatttgaaataatacaacaaaaattttaaaatacaaaacaatatggcataa
762
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10160676 aaaatatttaaattttaaacaataca-caaaatttttaaaatacaaaaaatatgacataa
10160618

Query: 763 aattaatgttggtg 776
| | || |||||
Sbjct: 10160617 attcaacgttggtg 10160604

Score = 65.9 bits (33), Expect = 3e-08
Identities = 58/65 (89%), Gaps = 1/65 (1%)
Strand = Plus / Minus

Query: 611 ttgaaatta-aaaaatatatatattaactgacaagttgacttgaactaaaatatttaaatt
669
 ||||| ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 48214281 ttgaaattataaaaaacacatatgtaaccaacaagttgaattgaactaaaatatttaaatt
48214222

Query: 670 acaaaa 674
 |||||
Sbjct: 48214221 acaaaa 48214217

Score = 63.9 bits (32), Expect = 1e-07
Identities = 56/64 (87%)
Strand = Plus / Minus

Query: 705 aatattttaaatTTGaaataatacaacaaaaattttaaaatacaaaacaatatggcataaaa
764
 ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 37685064 aatattttaaatTTGaaacaacacaaaaaaatgTTTaaaatacaaaagaatatgacataaat
37685005

Query: 765 ttaa 768
 |||||
Sbjct: 37685004 ttaa 37685001

Score = 63.9 bits (32), Expect = 1e-07
Identities = 38/40 (95%)
Strand = Plus / Plus

Query: 516 tgcataTTTTatgTTTTatcattttttaagagttgaaatc 555
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 48203550 tgcataTTTTtGTTTTaccattttttaagagttgaaatc 48203589

Score = 61.9 bits (31), Expect = 4e-07
Identities = 37/39 (94%)
Strand = Plus / Minus

Query: 1416 gtgtcccatcgccagccaccatcccatgCGagagtcca 1454
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 48213408 gtgtccctatcgTcagccaccatcccatgCGagagtcca 48213370

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 554 tcctttgtatTTTTATTTTATTtgattattataatacata 593
 ||||| ||||| |||||||||||||||| |||||||
Sbjct: 48214322 tcctttgcattTTTAATTTTATTtgattattaaaatacata 48214283

Score = 50.1 bits (25), Expect = 0.002
Identities = 47/53 (88%), Gaps = 1/53 (1%)
Strand = Plus / Minus

Query: 1549 cagtgtatacaacaatgaacaacacacatgacaactacaaatcattaaataata 1601
 |||| ||||||||| ||| ||||||||| ||||| |||||||||||||||||
Sbjct: 48210661 cagtaatacaacaacgaa-aacacacatgcgaactataaatcattaaataata
48210610

Score = 50.1 bits (25), Expect = 0.002
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 1388 tttcttgagtaccaaattaattaactcag 1416
 ||||||||||| |||||||||||||
Sbjct: 48213453 tttcttgagtactaaattaattaactcag 48213425

Score = 48.1 bits (24), Expect = 0.006
Identities = 39/44 (88%)
Strand = Plus / Minus

Query: 856 tgtgtatacgagaggagacatgacaacctttagaatttcttttc 899
 |||| ||||||||||||||| ||||||| ||| ||||| |||||
Sbjct: 10160502 tgtgaatacgagaggagacaggacaacccttataatttttttttc 10160459

Score = 48.1 bits (24), Expect = 0.006
Identities = 39/44 (88%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatTTTaaattacaaaatagatat 682
 ||||||||| ||||| ||||| ||||||||||||| ||| |||||

Sbjct: 37695849 acaagttgaattgaattaaaaaattttaaattacaatatatatat 37695806

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatattttaaatt 669
||||||| | ||||||||||||||||||||
Sbjct: 10160693 acaagttaaattgaactaaaatattttaaatt 10160663

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaaaaattaattat 199
||||||||||||||||||||||
Sbjct: 11300492 aataataaaaaaaaaaattaattat 11300470

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
||||||||||||||||||||||
Sbjct: 3064814 aaattaaaaaatatatatttaa 3064835

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 613 gaaattaaaaaatatatattta 634
||||||||||||||||||||||
Sbjct: 5374670 gaaattaaaaaatatatattta 5374691

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatattta 634
 |||||
Sbjct: 14396422 gaaattaaaaaatatatattta 14396401

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgttttaa 410
 |||||
Sbjct: 15807666 tttttttttgttttgttttaa 15807645

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 165 tttttttatccaaataataaaaa 189
 |||||
Sbjct: 1397485 tttttttatcccaataataaaaa 1397509

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 181 ataaaaaaaaattaattattt 201
 |||||
Sbjct: 3473111 ataaaaaaaaattaattattt 3473091

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttt 407
 |||||
Sbjct: 4213801 cttttttttttgttttgtttt 4213821

Score = 42.1 bits (21), Expect = 0.39

Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 182 taaaaaaaaaattaattatttta 202
|||||||
Sbjct: 7401940 taaaaaaaaaattaattatttta 7401920

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 404 ttttaaaattgtttgtatttttatttttt 432
||||||| |||||||
Sbjct: 8874349 ttttaaatatgtttgtatttttatttttt 8874321

Score = 42.1 bits (21), Expect = 0.39
Identities = 69/85 (81%)
Strand = Plus / Minus

Query: 1159 tctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaac
1218
||||| ||| ||||||| ||||||| | ||| ||| | |||||||
Sbjct: 10160271 tctccggtttattgtctcctggactaagaattatgtgtcacatcgactgaactcaagaat
10160212

Query: 1219 aatgtgagagtttgcctttttctgt 1243
| ||||| || || ||| |||||
Sbjct: 10160211 agtgtgagcgtatgtctttctctgt 10160187

Score = 42.1 bits (21), Expect = 0.39
Identities = 66/81 (81%)
Strand = Plus / Minus

Query: 1057 caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
1116
||||||| ||||| || ||| | ||||| || || ||||| |||||
Sbjct: 10160371 caacaacatgagaacaagacatgcacaatttctagaatttatcgattcacaccaccttt
10160312

Query: 1117 catctagcttgaccatgaaat 1137
| || ||||| | |||||
Sbjct: 10160311 cgtccagcttgatcgtgaaat 10160291

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 335 ttttcaaaaccaagttaagaa 355
|||||
Sbjct: 12084408 ttttcaaaaccaagttaagaa 12084428

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 507 aatttcttatgcatattttat 527
|||||
Sbjct: 15886089 aatttcttatgcatattttat 15886069

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 412 ttgtttgtatttttatttttt 432
|||||
Sbjct: 24663601 ttgtttgtatttttatttttt 24663621

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatttaa 635
|||||
Sbjct: 37477638 aattaaaaaatatatatttaa 37477658

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 569 ttttatttgattattataatacata 593
 |||||
Sbjct: 37695907 ttttatttgattattataatacata 37695883

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 387 cttttttttttgttttgtttt 407
 |||||
Sbjct: 39263529 cttttttttttgttttgtttt 39263509

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 424 ttattttttttgttattaat 443
 |||||
Sbjct: 1299471 ttattttttttgttattaat 1299490

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 559 tgtattttttattttatttga 578
 |||||
Sbjct: 2894945 tgtattttttattttatttga 2894926

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 612 tgaaattaaaaaatatatat 631
 |||||
Sbjct: 5300586 tgaaattaaaaaatatatat 5300605

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)

Strand = Plus / Minus

Query: 378 tcttaattgctttttttttt 397
 |||||
Sbjct: 5430969 tcttaattgctttttttttt 5430950

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 424 ttattttttttgttattaat 443
 |||||
Sbjct: 7140261 ttattttttttgttattaat 7140280

Score = 40.1 bits (20), Expect = 1.5
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 328 attttttttttcaaaaccaagttaagaaatcggttc 363
 ||||| | |||| |
Sbjct: 9320479 attttttttttcaaaactatgttatggaatcggttc 9320444

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 10413180 ttttttttttgttttgtttt 10413199

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 416 ttgtatttttattttttttg 435
 |||||
Sbjct: 10635552 ttgtatttttattttttttg 10635571

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1500 ttggccttaaaacacacatgacaa 1523
 ||||| ||||||||||||||||
Sbjct: 11783854 ttggcattaaaacacacatgacaa 11783831

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 566 ttatattttatttgattattat 585
 ||||||||||||||||||
Sbjct: 12054147 ttatattttatttgattattat 12054128

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 415 tttgtattttttattttttttt 434
 ||||||||||||||||||
Sbjct: 12948054 tttgtattttttattttttttt 12948073

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 561 tattttttattttatttgattatta 584
 |||||||||||||||| |||||
Sbjct: 13421834 tattttttattttatttgattatta 13421857

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 616 attaaaaaatatatatttaa 635
 ||||||||||||||||||
Sbjct: 14167955 attaaaaaatatatatttaa 14167936

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 611 ttgaaattaaaaaatatata 630
 |||||
Sbjct: 14920118 ttgaaattaaaaaatatata 14920137

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 384 ttgcttttttttttgttttgtttt 407
 |||||
Sbjct: 17519816 ttgcttttgttttgttttgtttt 17519793

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 162 agtttttttttatccaaataa 181
 |||||
Sbjct: 18666363 agtttttttttatccaaataa 18666344

Score = 40.1 bits (20), Expect = 1.5
Identities = 38/43 (88%), Gaps = 2/43 (4%)
Strand = Plus / Minus

Query: 166 ttttttatccaaataataaaaaaaattaattatttacccaa 208
 ||||| ||||| ||||| | |||||
Sbjct: 19335469 ttttttacccaaataattaaaaaa--tgaattatttacccaa 19335429

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaaattaa 195
 | | | | | | | | | | | | | | | |
Sbjct: 24613453 aaataataaaaaaaaaaattaa 24613472

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 348 gttaagaaatcggttccttg 367
 | | | | | | | | | | | | | | | |
Sbjct: 24717073 gttaagaaatcggttccttg 24717092

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 237 ttttttccttagttaagaaa 256
 | | | | | | | | | | | | | | | |
Sbjct: 24717102 ttttttccttagttaagaaa 24717121

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 | | | | | | | | | | | | | | | |
Sbjct: 26571828 ttttttttttgttttgtttt 26571809

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1078 tgtgcattttttgaaatttg 1097
 | | | | | | | | | | | | | | | |
Sbjct: 29623871 tgtgcattttttgaaatttg 29623852

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 1078      tgtgcattttttgaaatttg 1097
                |||||
Sbjct: 34797007 tgtgcattttttgaaatttg 34797026
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 118      atcgaaaaagaaaaagaaa 137
                |||||
Sbjct: 34897602 atcgaaaaagaaaaagaaa 34897621
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 176      aaataataaaaaaaaaattaa 195
                |||||
Sbjct: 37448076 aaataataaaaaaaaaattaa 37448095
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 352      agaaatcggttccttgga 371
                |||||
Sbjct: 37696756 agaaatcggttccttgga 37696737
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

```
Query: 181      ataaaaaaaaattaattatttacc 208
                |||||
Sbjct: 43310990 ataataaaaaataattatttacc 43310963
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1522 aaatatatttttattataaaaac 1541
 ||||||||||||||||||
Sbjct: 45443649 aaatatatttttattataaaaac 45443630

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1522 aaatatatttttattataaaaacaaa 1544
 |||||||||||||||| ||||||||
Sbjct: 1470415 aaatatatttttattataaaaacaaa 1470393

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 411 attgtttgtatttttattttttt 433
 |||||| ||||||||||||||||
Sbjct: 3036173 attgtttctatttttattttttt 3036195

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
 ||||||||||||||||||
Sbjct: 6160687 gtttgtatttttatttttt 6160669

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaatta 194
 ||||||||||||||||||
Sbjct: 6287854 aaataataaaaaaaaaatta 6287836

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 731 aaaaatttttaaaatacaaa 749
|||||||
Sbjct: 6429588 aaaaatttttaaaatacaaa 6429570

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 652 aactaaaatattttaaattacaaa 674
|||||||
Sbjct: 6531320 aactaaaatattttaaattacaaa 6531298

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 419 tattttttattttttttggtatta 441
|||||
Sbjct: 6738874 tattttatattttttttggtatta 6738896

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatattttttattataaaa 1540
|||||||
Sbjct: 9036656 aaatattttttattataaaa 9036638

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaaattaatta 198
 ||||| ||||||||||||||||
Sbjct: 9851453 aaataacaaaaaaaaaattaatta 9851431

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 179 taataaaaaaaaaaattaatt 197
 ||||||||||||||||||
Sbjct: 10064574 taataaaaaaaaaaattaatt 10064592

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 390 ttttttttgttttgtttta 408
 ||||||||||||||||||
Sbjct: 10565319 ttttttttgttttgtttta 10565301

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 392 ttttttgttttgttttaaa 410
 ||||||||||||||||||
Sbjct: 10794618 ttttttgttttgttttaaa 10794636

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 325 ttcattttttttttcaaaa 343
 ||||||||||||||||||
Sbjct: 11336098 ttcattttttttttcaaaa 11336116

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Plus

```
Query: 613      gaaattaaaaaatatatat 631
              |||||
Sbjct: 11489334 gaaattaaaaaatatatat 11489352
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 1522     aaatatattttattataaaa 1540
              |||||
Sbjct: 11607151 aaatatattttattataaaa 11607169
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

```
Query: 412      ttgtttgtatttttatttttttt 434
              |||||
Sbjct: 12352051 ttgtttgtattgttatttttttt 12352073
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 569      ttttatttgattattataa 587
              |||||
Sbjct: 13117978 ttttatttgattattataa 13117960
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 618      taaaaaatatatatttaac 636
              |||||
Sbjct: 13723603 taaaaaatatatatttaac 13723621
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
|||||||
Sbjct: 14278726 aaattaaaaaatatatatt 14278744

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 563 tttttattttatttgattattat 585
|||||||
Sbjct: 16719937 tttttattttatttgattattat 16719959

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaatt 197
|||||||
Sbjct: 17062462 taataaaaaaaaaattaatt 17062444

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 391 tttttttgttttgtttta 409
|||||||
Sbjct: 19146234 tttttttgttttgtttta 19146252

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 422 ttttattttttttgttatt 440
|||||||
Sbjct: 19809545 ttttattttttttgttatt 19809563

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 185 aaaaaaattaattatttac 203
 |||||
Sbjct: 20196683 aaaaaaattaattatttac 20196701

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 655 taaaatatttaaattacaaaata 677
 |||||
Sbjct: 20496145 taaaatatataaattacaaaata 20496123

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 190 aattaattatttacccaaaaaat 212
 |||||
Sbjct: 21693906 aattaattatttatcccaaaaaat 21693928

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttgttttgtttt 407
 |||||
Sbjct: 22604579 ttttttttgttttgtttt 22604597

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 1586 aaatcattaaataataacaattac 1608
 |||| | |||| |||| |||| |||| ||||
Sbjct: 22728943 aaataattaaataataacaattac 22728965

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttttgttttgtttt 407
 |||| |||| |||| |||| |||| ||||
Sbjct: 23261754 ttttttttttgttttgtttt 23261772

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 613 gaaattaaaaaatatatat 631
 |||| |||| |||| |||| |||| ||||
Sbjct: 24022028 gaaattaaaaaatatatat 24022046

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 179 taataaaaaaaaaattaatt 197
 |||| |||| |||| |||| |||| ||||
Sbjct: 30209965 taataaaaaaaaaattaatt 30209983

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 177 aataataaaaaaaaaattaa 195
 |||| |||| |||| |||| |||| ||||
Sbjct: 34135506 aataataaaaaaaaaattaa 34135524

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Minus

```
Query: 414      gtttgtatTTTTatTTTT 432
              |||||
Sbjct: 36291729 gtttgtatTTTTatTTTT 36291711
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

```
Query: 176      aaataataaaaaaaaaattaatta 198
              ||| |
Sbjct: 39856660 aaattataaaaaaaaaattaatta 39856638
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 416      ttgtatTTTTatTTTTTT 434
              |||||
Sbjct: 40461082 ttgtatTTTTatTTTTTT 40461100
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 388      ttttttttttgttttgttt 406
              |||||
Sbjct: 41138266 ttttttttttgttttgttt 41138248
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Plus

```
Query: 376      cttcttaattgcttttttttttgttttgttt 406
              ||||| ||| ||||| |||||
Sbjct: 41346287 cttctttatTTCTTTTTTTTTTTTTTTTgttt 41346317
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 570 tttatttgattattataat 588
 |||||
Sbjct: 42312510 tttatttgattattataat 42312528

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 563 tttttattttatttgatta 581
 |||||
Sbjct: 42793192 tttttattttatttgatta 42793210

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 612 tgaaattaaaaaatatatattta 634
 ||||| |||||
Sbjct: 43331171 tgaaataaaaaaatatatattta 43331193

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 45444272 tttttttttgttttgtttt 45444254

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 tttttttttgttttgtttt 406
 |||||
Sbjct: 45904037 tttttttttgttttgtttt 45904055

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 179 taataaaaaaaaaattaattatTT 201
 ||||| |||||
Sbjct: 46761701 taataaaaacaaattaattatTT 46761723

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 661 atttaaattacaaaatagatatg 683
 ||||| |||||
Sbjct: 46977275 atttaaattacaaaatatatatg 46977297

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 269 aattacattttttttatacattta 291
 ||||| |||||
Sbjct: 48325373 aattacatttttttttacattta 48325351

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 707 tatttaaatttgaaataat 725
 ||||| |||||
Sbjct: 48496248 tatttaaatttgaaataat 48496230

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatTTTTTTTTTT 432
 |||||
 Sbjct: 49464231 gtttgtatTTTTTTTTTT 49464213

Score = 38.2 bits (19), Expect = 6.1
 Identities = 19/19 (100%)
 Strand = Plus / Minus

Query: 279 ttttatacatTTtagaaatt 297
 |||||
 Sbjct: 50587650 ttttatacatTTtagaaatt 50587632

>[gb|ACUP01000066.1](#)| Glycine max chromosome 1 GLYMChr_01_Cont66, whole genome
 shotgun

sequence
 Length = 379986

Score = 174 bits (88), Expect = 4e-41
 Identities = 227/272 (83%), Gaps = 1/272 (0%)
 Strand = Plus / Minus

Query: 1608 caatcaaataatttggggagggggtcttcaaaacttgattcaagggtcattgtatcatcg
 1667
 ||||| || ||||| || ||||| ||||| ||||| ||||| |||||
 Sbjct: 347181 caatcaaacaatttggggaggggatctttaaactcaattcaagggtcattgcttcatgg
 347122

Query: 1668 aggtattcacccaaaccctccaaattcaaagagcttgcagaaactgggtgggtgtgtgca
 1727
 || |||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 347121 agatatttatccaaaccctccaaattcaaagagctggcataaattgggtgggtgatgtgca
 347062

Query: 1728 tatgtttatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaag
 1787
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 347061 catgtttgtgtgggtgtgtctttgggtggcaatatataactccaagcatgtgagcttgaag
 347002

Query: 1788 agtttcccaaatatagaaaacatagtaattatttcctcatcatcttgcagcatacatgcc
 1847
 | ||| | || ||||| ||||| || || | ||||| ||||| |||||
 Sbjct: 347001 attttgacgaagatagaaaacatagtca-tacgttctcatcatcttgcacatgcatgcc
 346943

Query: 1848 ctgtactgaaaacaatcaccaacaatgatac 1879

||||||| ||||||||||||||||
Sbjct: 346942 ctgtactggccacaatcaccaacaaatgatac 346911

Score = 79.8 bits (40), Expect = 2e-12
Identities = 120/146 (82%), Gaps = 3/146 (2%)
Strand = Plus / Plus

Query: 995 actttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata
1054

||||| || ||||||| ||||||||||| || || ||||||| || || ||||||| |
Sbjct: 371775 actttccaacgtatacatgagatgtatgtaatttctgtactcatgatgaacatgcttaca
371834

Query: 1055 aa---caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
1111

| |||||||||||||||| ||||| | ||||| ||||||| ||||| ||||||| |
Sbjct: 371835 actagcaacaacatgagaacaagtcagtgtgaaacttttggaatttgccacaatcacacca
371894

Query: 1112 cctttcatctagcttgaccatgaaat 1137
||||||| || ||||| |||||
Sbjct: 371895 cctttcatccagcctgaccgtgaaat 371920

Score = 77.8 bits (39), Expect = 7e-12
Identities = 75/87 (86%)
Strand = Plus / Plus

Query: 703 aaaatattttaatttgaaataataacaacaaaatttttaaatacaaaacaatatggcataa
762

||||||||||||||||| ||||||||||||| || ||||||||| ||||| |||||
Sbjct: 371461 aaaatattttaatttgaaataataacaacaaaattttacaaatacaaaaaatatgacttat
371520

Query: 763 aattaatggttggtggcctgagcctaca 789
| | || ||||||||| |||||||||
Sbjct: 371521 attcaacggttggtggcctgagcctaca 371547

Score = 60.0 bits (30), Expect = 2e-06
Identities = 90/109 (82%), Gaps = 2/109 (1%)
Strand = Plus / Plus

Query: 1302 ttgcgacttctctcccccttttggttgaacaatgcattacacctagtatagggttgatttta
1361

 ||||| ||||||||| ||| ||||||||| ||||||| ||| || |||||||
Sbjct: 372083 ttgcgtcttctctcccttttttggttgaacaatgcagtacaccttacatatgtggatttta
372142

Query: 1362 ccaacacac--attgccagattttgtgttttcttgagtaccaaattaat 1408

 | | ||||| ||| ||||||| || ||||||||| |||||||
Sbjct: 372143 ctagcacacctattggcagatttattgatttcttgagtacgaaattaat 372191

Score = 54.0 bits (27), Expect = 1e-04
Identities = 52/59 (88%), Gaps = 1/59 (1%)
Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtccacttttcttggtgaatcttcctaagctaattaattg
1489

 ||||||||||||||||||||| |||| || ||||||||| | |||||||||||||
Sbjct: 372231 gccaccatcccatgcgagagtcca-tttttttacggaatcttgccgagctaattaattg
372288

Score = 42.1 bits (21), Expect = 0.39
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 1585 caaatcattaaataataacaattacaatcaaata 1617

 ||||||||||||||||| ||| |||||||||
Sbjct: 378266 caaatcattaaataataaaaataccaatcaaata 378298

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttatttttttt 434

 |||||||||||||||||
Sbjct: 211872 tttgtatttttatttttttt 211853

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 164 ttttttttatccaaataataaaa 186
|||||
Sbjct: 148185 ttttttttatccaaattataaaa 148207

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 422 ttttattttttttgttatt 440
|||||
Sbjct: 316345 ttttattttttttgttatt 316327

>[gb|CM000853.1](#) Glycine max chromosome 20, whole genome shotgun sequence
Length = 46773167

Score = 174 bits (88), Expect = 4e-41
Identities = 137/152 (90%), Gaps = 1/152 (0%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
698
|||||
Sbjct: 24239020 acaagttgaattgaactaaaatatttaaattataaaaatatataaaatcaccaacaata
24239079

Query: 699 gaacaaaatatttaaatttgaaataatacaacaaaaattttaaaatacaaacaatatggc
758
|||
Sbjct: 24239080 gaataaaatatttaaatttgaaacaata-aacaaaaatttgaaaatacaaagaatacgac
24239138

Query: 759 ataaaaattaatgttggtggcctgagcctacac 790
|||||
Sbjct: 24239139 ataaatttaatgttggtggcctgagcctacac 24239170

Score = 172 bits (87), Expect = 2e-40
Identities = 199/235 (84%), Gaps = 1/235 (0%)
Strand = Plus / Plus

Query: 1645 attcaaggttcattgtatcatcgaggatttcacccaaaccctccaaattcaaagagcttg
1704
|||||
Sbjct: 19378046 attcatggttcattgcttcatcggtggtattcatctataccctccaaattcaaagagcttg
19378105

Query: 1705 cagaaactggtggtggttgtgcatatgtttatgtgggtgtgtctacggtgataacataaa
1764

||||| ||||||||| ||||||| ||||||| ||||||| || || ||||| ||| ||| |
Sbjct: 19378106 tagaaattggtggtggatgtgcacatgtttgtgtgggtatgcctgtggtggtaatatata
19378165

Query: 1765 actcaaggcatgtgaagttgaagagtttcccaaatatagaaaacatagtaattatttcct
1824

||| ||||||||| ||||| ||||||| | ||||||||| ||||||||| |||||
Sbjct: 19378166 acttaaggcatgtgaggttgagagttt-caaaatatagaaaacatagtaattatgtcct
19378224

Query: 1825 catcatcttgcagcatacatgcctgtactgaaaacaatcaccaacaaatgatac 1879

||||||| |||| | ||||||||| | ||||||| ||||||||| |||||
Sbjct: 19378225 catcatcgtgcaatgtgcatgcctgtattagccacaatcaacaacaaatgatac
19378279

Score = 165 bits (83), Expect = 4e-38
Identities = 280/344 (81%), Gaps = 5/344 (1%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860

||||| ||||||||| ||||||| ||||| || || || || ||||||||| |||||
Sbjct: 19236160 atgcaacacatggaacattgctttggttgacctaatcctcgaatatccatttcagtgtgg
19236219

Query: 861 atacgagag--gagacatgacaacctttagaatttcttttcatttttgggttggggcгаа
918

||| ||||| ||||||| | ||||| ||||||||| ||||| | ||||||| ||||||| |
Sbjct: 19236220 atatgagagaggagacaaggcaacccttagaatttcatttcttcttgggtcggggcгаа
19236279

Query: 919 ttcttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatt
978

|| ||||||||| ||||||||| ||||| | ||||| ||||| ||||| ||||| ||||| |
Sbjct: 19236280 ttattggcttgggacatggttagccaatacgtttgttgcccaattccccaacaatccta
19236339

Query: 979 tgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcat
1038

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Sbjct: 19236340 tgtatatgttggacacactttggaatgtatacataagatgtatgtagttcctgtactcat
19236399

Query: 1039 ggtgagcatgcttataaacaaca---acatgagaacaaaacatgtgcattttttgaaatt
1095

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Sbjct: 19236400 agtgagcatgcttacaagcaacaccaacattagaacaaggcatgtgcaatttttggaatt
19236459

Query: 1096 tgtcacagtcacactacctttcatctagcttgaccatgaaattt 1139

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Sbjct: 19236460 tgccatagtcacaccaccttttatccagcttgaccatgaaattt 19236503

Score = 163 bits (82), Expect = 2e-37
Identities = 142/162 (87%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaatta
670

|||||
Sbjct: 34268928 ttgaaattaaaaaaaatatatgtaaccaacaagttgaattgaactgaaatatttaaatta
34268869

Query: 671 caaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataataacaac
730

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Sbjct: 34268868 caaaacatacataaaaattaacaacaataaaaataaaatatttaaatttgaaacaataacaac
34268809

Query: 731 aaaaatttttaaatacaaaacaatatggcataaaaattaatggt 772

|||||
Sbjct: 34268808 aaaaatttttaaatacgaaaagtatgacataaatttaatggt 34268767

Score = 159 bits (80), Expect = 2e-36
Identities = 131/148 (88%)
Strand = Plus / Plus

Query: 972 aatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttccta
1031

|||||
Sbjct: 25839794 aatcatttgtatatggttgagacactttccaacgtatactcaggatgtatgtagttccta
25839853

Query: 1032 tactcatggtgagcatgcttataaacaacaacatgagaacaaaacatgtgcattttttga
1091

|||||
Sbjct: 25839854 tactcatggtgaacatgcttacaagcaacaacatgagaacaaggcatgtgcaatttgtga
25839913

Query: 1092 aatttgtcacagtcacactacctttcat 1119
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Sbjct: 25839914 aatttgtcacagtcacactacttttcat 25839941

Score = 157 bits (79), Expect = 9e-36
Identities = 117/129 (90%), Gaps = 3/129 (2%)
Strand = Plus / Minus

Query: 995 actttttcagcgtatacacagaatgtatgtagttcctataactcatggtgagcatgcttata
1054
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Sbjct: 34268522 actttttcaacatatacacatgatgtatgtagttcctatattcatggtaagcatgcttaca
34268463

Query: 1055 a---acaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
1111
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Sbjct: 34268462 agcaacaacaacatgagaacaatacatgtgcaatttttggaaatttgtcacagtcacacta
34268403

Query: 1112 cctttcatc 1120
 |||||||||
Sbjct: 34268402 cctttcatc 34268394

Score = 147 bits (74), Expect = 9e-33
Identities = 263/321 (81%), Gaps = 5/321 (1%)
Strand = Plus / Plus

Query: 1561 aatgaacaacacacatgacaactacaaatcattaaataatata-attacaatcaaataat
1619
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Sbjct: 33765019 aatgaacaacacacatgaagactacaaatcatgaaataataaacataacaatcaacttat
33765078

Query: 1620 ttggggagggggt--cttcaaaacttgattcaagggtcattgtatcatcgaggatttcac
1677
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Sbjct: 33765079 tt-aggagggttttttcttcaaaaatcgattcaagggtcattgcttcatcaaggatttcac
33765137

Query: 1678 ccaaaccctccaaattcaaagagcttgcagaaactgggtgggtggttgtgcatatgtttatg
1737
 | |||||||||||||||| || |||||||| ||| | |||||||||||||||||| || |

Sbjct: 33765138 ctgaaccctccaaattccaaaagcttgcaaaaattagtggtggttgatgcatatgtctgta
33765197

Query: 1738 tgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaa
1797

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Sbjct: 33765198 tgggtgtatcctcaatggtaacatataactcaatgcatgt-aaggatcatggagttcccaa
33765256

Query: 1798 atataaaaaacatagtaattatttcctcatcatcttgacagcatatgccctgtactgaa
1857

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Sbjct: 33765257 ataaagaaaacatagtgattatatcatcattatcttgcaacttgcatgccctataataaa
33765316

Query: 1858 aacaatcaccaacaaatgata 1878
||||||| ||||| |||||
Sbjct: 33765317 aacaatcactaacaaatgata 33765337

Score = 143 bits (72), Expect = 1e-31
Identities = 115/128 (89%), Gaps = 1/128 (0%)
Strand = Plus / Plus

Query: 649 ttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaatagaacaaaata
708

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Sbjct: 356151 ttgaactaaaatatttaa-ttaccaaatagatataaaattacaaacaatagaataaaaata
356209

Query: 709 tttaaatttgaaataataacaacaaaaatttttaaataacaacaatatggcataaaattaa
768

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Sbjct: 356210 tttaaattttaaacaataacaacaacatttttaaactacaaacgatatgacataaaacttaa
356269

Query: 769 tgttggtg 776
|||||||
Sbjct: 356270 cgttggtg 356277

Score = 141 bits (71), Expect = 6e-31
Identities = 220/267 (82%), Gaps = 2/267 (0%)
Strand = Plus / Minus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaataataacaattacaatca
1613

|||||
Sbjct: 34265233 atacaacaatgaaaaacatatatgacaactacaaatcattaacaataaaataacaatca
34265174

Query: 1614 aataatttggggagggggt-cttcaaaacttgattcaagggttcattgtatcatcgaggta
1672

|||||
Sbjct: 34265173 aataaattgggtgggatttttcttcaaaactagattcaagggttcattgtttcatcgagata
34265114

Query: 1673 ttcacccaaaccctccaaattcaaagagcttgagaaaactgggtgggtggtgtgcatatgt
1732

|||||
Sbjct: 34265113 ttcacccaaaccctccaaattcaaagagcttgagaaaactgggtgggtggtgtgcatatgt
34265055

Query: 1733 ttatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagttt
1792

|||||
Sbjct: 34265054 ttatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagttt
34264995

Query: 1793 cccaaatatagaaaacatagtaattat 1819

||
Sbjct: 34264994 ctcgaacatagaaagcatagtcattat 34264968

Score = 133 bits (67), Expect = 1e-28
Identities = 242/298 (81%), Gaps = 3/298 (1%)
Strand = Plus / Minus

Query: 1194 tgtcgcattaatcgaactcaagaacaatgtgagagtttgccttttctgtatgtctttca
1253

|||||
Sbjct: 34268325 tgtcgcattaatcgaactcaagaacaatgtgagagtttgccttttctgtatgtctttca
34268266

Query: 1254 tagccttggttaataacttttgtataaaacttcaccaaataatcactcttgcgacttctc
1313

|||||
Sbjct: 34268265 tagccttggttaataacttttgtataaaacttcaccaaataatcactcttgcgacttctc
34268206

Query: 1314 tccccctttgggtgaacaatgcattacacctagtaggttgattttaccaacacac--a
1371

|||||

Sbjct: 34268205 tccctcttttgtcgaacaatgcattacaccttcgatatgttgattttactaacgcactta
 34268146

Query: 1372 ttgccagattttgtggttttcttgagtaccaaattaattaactcagtgtcccatcgccag
 1431

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 Sbjct: 34268145 ttggtaaatttcttggttttcttaattaccaaattaatcgac-aattgtcccatgtgcag
 34268087

Query: 1432 ccaccatcccatgcgagagtcacttttcttggtgaatcttcctaagctaattaattg
 1489

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 Sbjct: 34268086 ccaccatcccattcgagaatccatttttcttgtaaattctcctaagctaattaattg
 34268029

Score = 127 bits (64), Expect = 8e-27
 Identities = 134/156 (85%), Gaps = 1/156 (0%)
 Strand = Plus / Plus

Query: 643 gttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaatagaac
 702

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 Sbjct: 19538172 gttgaattgaactataatatttaaattataaaaatattt-taaaattatcaacaacagaac
 19538230

Query: 703 aaaatattttaaatttgaaataatacaacaaaaatttttaaatacaaaacaatatggcataa
 762

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 Sbjct: 19538231 aaaatattttaaatttgaaacaatacaacaaaaatttttagaatacaaaagaatatgacatag
 19538290

Query: 763 aattaatgttggtggcctgagcctacacaatggggg 798
 | |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 19538291 atttaacattgttggtgcttaagcttacacaatggggg 19538326

Score = 123 bits (62), Expect = 1e-25
 Identities = 116/134 (86%)
 Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcatttttggtttacctgattcttgatatccattttggtgtgt
 860

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 Sbjct: 34268716 atgcgacacacgaaacatcgttttggttgacttaattctcgatatccattttggtgtgg
 34268657

Query: 861 atacgagaggagacatgacaacctttagaatttccttttcatttttgggttggggcaaatt
920
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Sbjct: 34268656 atacgagaggagacacgacaacccttagaatttcctttcttctctgggtcggggcaaaca
34268597

Query: 921 cttggcttgtgaca 934
 ||||| ||||| |||||
Sbjct: 34268596 attggcttgtgaca 34268583

Score = 121 bits (61), Expect = 5e-25
Identities = 163/197 (82%)
Strand = Plus / Minus

Query: 1686 tccaaattcaaagagcttgcagaaactgggtgggtgtgcatatgtttatgtgggtgtg
1745
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11435891 tccaaattcatagaactggcagaaattgggtgtggatgtgcacatgtttgtgtaggtgtg
11435832

Query: 1746 tctacggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaa
1805
 || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11435831 tttgtgggtgataatatataactctaggcatgtgagcttcgagaattatccaaacatagaa
11435772

Query: 1806 aacatagtaattatttctcatcatcttgcagcatacatgccttgtactgaaaacaatca
1865
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11435771 aacatagtcattatgtccttatcatcatgcaacatgccttgtattggccacaatca
11435712

Query: 1866 ccaacaaatgatacggg 1882
 ||||| ||||| ||||| |||||
Sbjct: 11435711 ccaacaaatgatacggg 11435695

Score = 113 bits (57), Expect = 1e-22
Identities = 135/157 (85%), Gaps = 8/157 (5%)
Strand = Plus / Plus

Query: 437 tattaattgtctatatatttg-tgttctgttttaaattgaaaacaatattatttttcatatgt
495
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 355959 tattaattgtttatatattttatgttttgttttaaattgaaaataatattattgtgcatatgt
356018

Query: 496 tgttaattcctaatt--tcttatgcatattttatgttttatcatttttt-aagagttgaa
552

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Sbjct: 356019 tgt---tgtaaactctttttttgcatattttttgttttatcattttttgaatagttgaa
356074

Query: 553 atcctttgtatttttattttatttgattattataata 589

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Sbjct: 356075 atcctttgtattttcattttatttgattattaaaata 356111

Score = 111 bits (56), Expect = 5e-22
Identities = 125/148 (84%)
Strand = Plus / Plus

Query: 1194 tgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttca
1253

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Sbjct: 25840014 tgtcgcacatcaatcgaattcaagaacaatgtgagcggtttcctttctctgtgcgtctttga
25840073

Query: 1254 tagccttggttaataacttttgtataaaacttcaccaaataatcactcttgcgacttctc
1313

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Sbjct: 25840074 tggccctggttagtacttgcgatataaaacttggccagatgcaagcattattgcaacttctc
25840133

Query: 1314 tccccctttggttgaacaatgcattaca 1341

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Sbjct: 25840134 tccctcttttgttgaacaatgcattaca 25840161

Score = 103 bits (52), Expect = 1e-19
Identities = 160/196 (81%)
Strand = Plus / Plus

Query: 1165 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
1224

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Sbjct: 19236527 gttaattgtctcttggaaccaagaatagtggttgcatgatcgaagttaagaacaatgtg
19236586

Query: 1225 agagtttgcctttttctgtatgtctttcatagccttggttaataacttttgataaaacttc
1284

Sbjct: 19236587 agtgtttgcctttctttgtgctgtcttccatgaccttatttagtacttgcatataaactta
19236646

Query: 1285 accaaatgtaatcactcttgcgacttctctcccccttgggtgaacaatgcattacacct
1344

Sbjct: 19236647 gctagatgtaagcattggtgtgacttctctccctcttttgtaaacaatgcattacacct
19236706

Query: 1345 agtatagggttgatttt 1360
Sbjct: 19236707 tatatatgttgatttt 19236722

Score = 101 bits (51), Expect = 5e-19
Identities = 75/83 (90%)
Strand = Plus / Plus

Query: 707 tattttaaatttgaaataataacaacaaaaattttaaaatacaaacatattggcataaaatt
766

Sbjct: 19236044 tattttaaatttgaaacaatacatcaaaattttttaaatacaagaatatgacataaattt
19236103

Query: 767 aatggttggtggcctgagcctaca 789
Sbjct: 19236104 aacggttggtggcctgagcctaca 19236126

Score = 89.7 bits (45), Expect = 2e-15
Identities = 113/135 (83%), Gaps = 3/135 (2%)
Strand = Plus / Minus

Query: 1004 cgtatacacagaatgtatgtagttcctatactcatgggtgagcatgcttataaa---caac
1060

Sbjct: 17144506 cgtatacacagaatgtatgtagttttgtactcatgatgaggattcttacaagaagcaac
17144447

Query: 1061 aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
1120

Sbjct: 17144446 aacatgataacaaggcatgtgcaacttctggaatttgtcatagtcacactacctttcatc
17144387

Query: 1121 tagcttgaccatgaa 1135
 ||| ||| |||||
 Sbjct: 17144386 cagcatgacaatgaa 17144372

Score = 87.7 bits (44), Expect = 7e-15
 Identities = 95/112 (84%)
 Strand = Plus / Plus

Query: 852 ttggtgtgtatcacgagaggagacatgacaacctttagaatttcttttcatttttgggttg
 911
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 Sbjct: 19538400 ttggtgtggatgcaagaggagacatgacgacccttagaatttctcttcttgtttaggttg
 19538459

Query: 912 gggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcacaatt 963
 || | || ||||| ||||| ||||| ||| ||||| ||||| |||||
 Sbjct: 19538460 ggaccgatcattggcttgtgacatagtgaccaatattgttcttcattgcacaatt 19538511

Score = 81.8 bits (41), Expect = 5e-13
 Identities = 116/141 (82%)
 Strand = Plus / Plus

Query: 1204 atcgaactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttggt
 1263
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 19538653 atcgaactcaagaacaatgtgagcatttgccttttctgtgcttctcgatgaccatgtt
 19538712

Query: 1264 taatacttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttg
 1323
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 Sbjct: 19538713 tagtacttgcataataaaacttagctagatgtaagcattgctgagacttctctccctctttt
 19538772

Query: 1324 gttgaacaatgcattacacct 1344
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 19538773 gttgaacaatgcattacacct 19538793

Score = 79.8 bits (40), Expect = 2e-12
 Identities = 106/128 (82%)
 Strand = Plus / Plus

Query: 836 ttcttgatatccatTTTGGTGTGTATACGAGAGGAGACATGACAACCTTTAGAATTTCT
895

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Sbjct: 33760768 ttctttgatatccatTTTGGTGTGTATATGAGAGGATACTGGACAACCTTTAGAATTTT
33760827

Query: 896 tttcattTTTGGGTGGGGCAAATTCCTGGCTTGTGACATGGTGACCAACATGCTTCATT
955

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Sbjct: 33760828 taacattgTTTGGTCGGGCTAGATTAGTGGTTTGTGACATTGTGGCCAATACGTTTCATT
33760887

Query: 956 gcacaatt 963
 |||||||
Sbjct: 33760888 gcacaatt 33760895

Score = 77.8 bits (39), Expect = 7e-12
Identities = 139/168 (82%), Gaps = 7/168 (4%)
Strand = Plus / Minus

Query: 1582 ctacaaatcattaaataataacaattacaatcaaataatttgggg-aggggg----tcttc
1636

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Sbjct: 32579449 ctacaaatcattaaatgataaaattt-actcaaataaattgggggagggggagtttcttc
32579391

Query: 1637 aaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctc-caaattca
1695

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Sbjct: 32579390 aaaactcgattcatggttcattgtttaagcgagggtattcatctaaatcctcaaaaattga
32579331

Query: 1696 aagagcttgacagaaactggTGGTGGTGTGcatatgtttatgtgggtg 1743

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Sbjct: 32579330 aagagctaacagaaattggTGGTGGatgtgcacatgtttgtgtaggtg 32579283

Score = 75.8 bits (38), Expect = 3e-11
Identities = 59/66 (89%)
Strand = Plus / Minus

Query: 684 aaattacaaacaatagaacaaaatatttaaatttgaaataataacaacaaaaattttaaaa
743

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Sbjct: 17144846 aaattaccaacaacagaacaaaaatatataaatttgaattaatacaacaaaattttacaaa
17144787

Query: 744 tacaaa 749
 |||||
Sbjct: 17144786 tacaaa 17144781

Score = 71.9 bits (36), Expect = 4e-10
Identities = 42/44 (95%)
Strand = Plus / Plus

Query: 160 agagttttttttatccaaataataaaaaaaaaattaattatttac 203
 |||||
Sbjct: 355690 agagttttttttatccaaataatacaataaattaattatttac 355733

Score = 71.9 bits (36), Expect = 4e-10
Identities = 70/80 (87%), Gaps = 1/80 (1%)
Strand = Plus / Plus

Query: 972 aatcatttgtacatgttatagatacttttcagcgtatacacaa-gatgtatgtagttcct
1030
 |||||
Sbjct: 24239362 aatcatttgtatatgttgagacactttccaatgtatatacaaagatgtatgtagttcct
24239421

Query: 1031 atactcatggtgagcatgct 1050
 |||||
Sbjct: 24239422 gtactcatggtgagcatgct 24239441

Score = 69.9 bits (35), Expect = 2e-09
Identities = 95/115 (82%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatac
864
 |||||
Sbjct: 24239207 gacacacggaacattgctttggttgacctgattctcgaataaccgatttaggtgtgtatac
24239266

Query: 865 gagaggagacatgacaacctttagaatttcttttcatttttggggtggggcaaat 919
 |||||

[illegible]

Sbjct: 19237742 gccatcatcccatgcaagagtcatttttcttgtggaatctagctgagccaattaattg
19237800

Score = 61.9 bits (31), Expect = 4e-07
Identities = 64/75 (85%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860

|||||
Sbjct: 32581590 atgcgacacatgaaacattgctttggttgacccgattctcagatatccattttggtgtgg
32581531

Query: 861 atacgagaggagaca 875
||| ||| |||||
Sbjct: 32581530 atatgagtggagaca 32581516

Score = 60.0 bits (30), Expect = 2e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtcacttttcttgtggaatctt 1472
|||||
Sbjct: 24239840 gccaccatccaatgtgagagtcatttttcttgtggaatctt 24239881

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 554 tcctttgtatttttattttatttgattattataataacata 593
|||||
Sbjct: 25839416 tcctttatattttcattttatttgattattaaaataacata 25839455

Score = 56.0 bits (28), Expect = 3e-05
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 1432 ccaccatcccatgcgagagtcacttttcttgtggaatct 1471
|||||
Sbjct: 25840263 ccaccatcccatgtgagagtcatttttcttgtgaaatct 25840302

Score = 56.0 bits (28), Expect = 3e-05
 Identities = 117/146 (80%), Gaps = 3/146 (2%)
 Strand = Plus / Minus

Query: 995 actttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata
 1054
 ||||| || ||||||||| ||||||||||||| | ||||||| ||||||||||||| |
 Sbjct: 32581396 actttccaacgtatacacgggatgtatgtagtttgtgtactcatgatgagcatgcttaca
 32581337

Query: 1055 ---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
 1111
 ||||||| ||||||| || ||||||| || | ||||| ||| ||||| |
 Sbjct: 32581336 agtaacaacaatatgagaataaggcatgtgcaacttctagaattttccacaatcacatca
 32581277

Query: 1112 cctttcatctagcttgaccatgaaat 1137
 ||||| || ||||||||| |||||
 Sbjct: 32581276 ccttttatgtagcttgaccgtgaaat 32581251

Score = 54.0 bits (27), Expect = 1e-04
 Identities = 45/51 (88%)
 Strand = Plus / Plus

Query: 1549 cagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataa 1599
 |||| ||||||||||||| ||||||||||||| ||||||| | |||||||||
 Sbjct: 19377964 cagtaatacaacaatgaaaaacacacatgatgactacaacttattaaataa 19378014

Score = 54.0 bits (27), Expect = 1e-04
 Identities = 75/90 (83%), Gaps = 2/90 (2%)
 Strand = Plus / Minus

Query: 703 aaaatattttaaatttgaaataataca--acaaaaatttttaaatacaaaacaatatggcat
 760
 ||||||||||||||||| ||||| | |||| | ||| ||||| ||||||||| |||
 Sbjct: 32581712 aaaatattttaaatttgaaataatatagaacaacattttacaaatataaacaatatgacat
 32581653

Query: 761 aaaattaatgttgttggcctgagcctacac 790
 | | | || ||||||||| |||||||||
 Sbjct: 32581652 acattcaacgttgttggcctgagcctacac 32581623

Score = 50.1 bits (25), Expect = 0.002
Identities = 28/29 (96%)
Strand = Plus / Plus

Query: 1388 tttcttgagtaccaaattaattaactcag 1416
 |||||
Sbjct: 25840202 tttcttgagtaccaaattaattgactcag 25840230

Score = 48.1 bits (24), Expect = 0.006
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaatta 670
 |||||
Sbjct: 19235963 acaagtttaattgaactaaaatatttaaatta 19235994

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 1319 ctttggttgaacaatgcattacacct 1344
 ||||
Sbjct: 17144190 ctttggttgaacaatgcattacacct 17144165

Score = 44.1 bits (22), Expect = 0.098
Identities = 64/78 (82%)
Strand = Plus / Minus

Query: 822 tttggtttacctgattcttgatatccattttggtgtgtatacgagaggagacatgacaa
881
 |||||
Sbjct: 17144689 tttggttgacctagttctcgatatccatttcggtgtggatatgagtggagataggacga
17144630

Query: 882 cttttagaatttcttttc 899
 ||
Sbjct: 17144629 cccttagtacttcttttc 17144612

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 464 ttaaattgaaaacaatattatatttttc 489
 ||||| ||||||||||||||||
Sbjct: 20297212 ttaaatttaaaacaatattatatttttc 20297187

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttta 408
 ||||| ||||||||||||||||
Sbjct: 25155081 cttttttttttgttttgtttta 25155102

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatattttaa 668
 ||||| |||||||||| |||||
Sbjct: 25839480 acaagttgaattgaactaaaacattttaa 25839509

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatattttaa 668
 ||||| |||||||||| |||||
Sbjct: 25839539 acaagttgaattgaactaaaacattttaa 25839510

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttta 408
 ||||| ||||||||||||||||

Sbjct: 34028276 cttttttttttgttttgtttta 34028297

Score = 44.1 bits (22), Expect = 0.098
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 421 tttttattttttttgttattaattgtctatatatt 454
|||||
Sbjct: 34269960 tttttattttttttctttttaattatctatatatt 34269927

Score = 44.1 bits (22), Expect = 0.098
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 388 tttttttttttgttttgttttaaattgttt 417
|||||
Sbjct: 45330916 tttttttttttgttttactttttaaattgttt 45330887

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 424 ttattttttttgttattaatt 444
|||||
Sbjct: 517986 ttattttttttgttattaatt 518006

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttt 407
|||||
Sbjct: 9304477 cttttttttttgttttgtttt 9304497

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatatttaa 635
 |||||||
Sbjct: 12509552 aattaaaaaatatatatttaa 12509532

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 122 aaaaagaaaaaagaaatgcat 142
 |||||||
Sbjct: 12534532 aaaaagaaaaaagaaatgcat 12534552

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 390 ttttttttgttttgttttaa 410
 |||||||
Sbjct: 26295040 ttttttttggttttgttttaa 26295020

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 1305 cgacttctctcccccttggttgaa 1329
 |||||||
Sbjct: 33761238 cgacttctctccacttggttgaa 33761262

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 377 ttcttaattgctttttttttt 397
 |||||||
Sbjct: 42492642 ttcttaattgctttttttttt 42492662

Score = 42.1 bits (21), Expect = 0.39

Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 407 taaaattgtttgtatTTTTTTTT 431
 |||||
Sbjct: 44197533 taaaattgtttgtatTTTTTTTT 44197509

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 994660 aaattaaaaaatatatattt 994641

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 182 taaaaaaaaattaattattt 201
 |||||
Sbjct: 2079849 taaaaaaaaattaattattt 2079868

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 315 tttcaaatgttcatttttt 334
 |||||
Sbjct: 16413112 tttcaaatgttcatttttt 16413093

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 98 tggcatggacatggtggccg 117
 |||||
Sbjct: 16993057 tggcatggacatggtggccg 16993076

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1078 tgtgcattttttgaaatttg 1097
 |||||
Sbjct: 18497281 tgtgcattttttgaaatttg 18497300

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 1339 acacctagtatataggttgattttaccaac 1366
 ||||| ||| |||||
Sbjct: 21750036 acacctactatatgttgattttaccaac 21750063

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 22531736 ttttttttttgttttgtttt 22531717

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 391 ttttttttgttttgttttaaa 410
 |||||
Sbjct: 26210362 ttttttttgttttgttttaaa 26210381

Score = 40.1 bits (20), Expect = 1.5
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 604 aacttaattgaaattaaaaaatatatatttaa 635
 |||| | ||||| |||||

Sbjct: 27849231 aactttattttaaatataaaaaatgtatatatttaa 27849262

Score = 40.1 bits (20), Expect = 1.5
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 1256 gccttggtttaataacttttgtataaaactt 1283
||||| ||| ||||||||||||||||
Sbjct: 32581134 gccttgcttagtacttttgtataaaactt 32581107

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 411 attgtttgtatttttatttttttt 434
||||||||||||| ||||||||
Sbjct: 33583303 attgtttgtattttaatttttttt 33583326

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 564 ttttattttatttgattatt 583
|||||||||||||
Sbjct: 34659870 ttttattttatttgattatt 34659889

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 419 tatttttattttttttgtta 438
|||||||||||||
Sbjct: 34866431 tatttttattttttttgtta 34866450

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 392 ttttttgttttgttttaaaa 411
 |||||
Sbjct: 37007248 ttttttgttttgttttaaaa 37007267

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaaaa 411
 |||||
Sbjct: 38329636 ttttttttttgttttggtttaaaa 38329613

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 39139236 aaattaaaaaatatatattt 39139255

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 39703869 ttttttttttgttttgtttt 39703888

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 616 attaaaaaatatatatttaa 635
 |||||
Sbjct: 40955512 attaaaaaatatatatttaa 40955531

Score = 40.1 bits (20), Expect = 1.5

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 42929073 ttttttttttgttttgtttt 42929092

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaattaa 195
 |||||
Sbjct: 43732871 aaataataaaaaaaaaattaa 43732852

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattta 634
 |||||
Sbjct: 43746204 aattaaaaaatatatattta 43746223

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 393 tttttgttttgttttaaaattgt 415
 ||||| |||||
Sbjct: 245423 ttttttttttgttttaaaattgt 245401

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 181 ataaaaaaaaattaattat 199
 |||||
Sbjct: 677897 ataaaaaaaaattaattat 677879

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 417 tgtatTTTTtattTTTTttgttat 439
 ||||| |||||||||
Sbjct: 1222193 tgtatTTtataTTTTttgttat 1222215

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 618 taaaaaatatatatttaac 636
 ||||| |||||||||
Sbjct: 2031507 taaaaaatatatatttaac 2031489

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 177 aataataaaaaaaaaattaa 195
 ||||| |||||||||
Sbjct: 3014485 aataataaaaaaaaaattaa 3014503

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 394 ttttgTTTTgtttttaaatt 412
 ||||| |||||||||
Sbjct: 4034799 ttttgTTTTgtttttaaatt 4034817

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 391 ttttttgTTTTgtttttaaatt 413
 ||||| |||||||||

Sbjct: 4070567 tttttttcttttgttttaaaatt 4070589

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 513 ttatgcatattttatgttt 531
|||||||
Sbjct: 5034537 ttatgcatattttatgttt 5034519

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 513 ttatgcatattttatgttt 531
|||||||
Sbjct: 5049830 ttatgcatattttatgttt 5049812

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 513 ttatgcatattttatgttt 531
|||||||
Sbjct: 5076650 ttatgcatattttatgttt 5076632

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacathtagaaatt 297
|||||||
Sbjct: 5169665 ttttatacathtagaaatt 5169683

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 700 aacaaaaatattttaaatttgaaat 722
 |||||
Sbjct: 6643412 aacaaaaatattttaaatttgaaat 6643434

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttt 406
 |||||
Sbjct: 8077834 tttttttttgttttgttt 8077816

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaaattaatta 198
 |||| |
Sbjct: 8130621 aaattataaaaaaaaaaattaatta 8130599

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 567 tattttatttgattattataata 589
 |||||
Sbjct: 8991604 tattttatttaattattataata 8991626

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 ttttttttttgttttgttt 407
 |||||
Sbjct: 9862787 tttttttttgttttgttt 9862805

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 180 aataaaaaaaaaattaatta 198
 |||||||
Sbjct: 11325670 aataaaaaaaaaattaatta 11325688

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 412 ttgtttgtatttttatttttttt 434
 ||||| |||||||
Sbjct: 14398834 ttgtttttatttttatttttttt 14398856

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 411 attgtttgtatttttatttttttt 433
 ||||| |||||||
Sbjct: 15161010 attgtttttatttttatttttttt 15161032

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 616 attaaaaaatatatattta 634
 |||||||
Sbjct: 15672011 attaaaaaatatatattta 15672029

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 563 tttttattttatttgattattat 585
 ||||||| |||||||
Sbjct: 17643956 tttttattttattttattattat 17643978

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 421 tttttatttttttttgttat 439
 |||||
Sbjct: 18971979 tttttatttttttttgttat 18971997

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 22288199 aaatatattttattataaaa 22288217

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1036 catggtgagcatgcttata 1054
 |||||
Sbjct: 22603380 catggtgagcatgcttata 22603398

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 564 ttttattttatttgattattata 586
 |||||
Sbjct: 24083587 ttttattttatttgattattata 24083565

Score = 38.2 bits (19), Expect = 6.1
Identities = 31/35 (88%)
Strand = Plus / Plus

Query: 1308 cttctctccccctttggttgaacaatgcattacac 1342
 ||||| || | ||||| |||||

Sbjct: 24239698 cttctctccctctattgttgaaccatgcattacac 24239732

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 383 attgcttttttttttgttt 401
|||||
Sbjct: 24248272 attgcttttttttttgttt 24248290

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 184 aaaaaaaattaattatttta 202
|||||
Sbjct: 26288835 aaaaaaaattaattatttta 26288817

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
|||||
Sbjct: 28609411 aaatatattttattataaaa 28609393

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 179 taataaaaaaaaaattaattattt 201
|||||
Sbjct: 30878988 taataaaaaaaaaattaattattt 30879010

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgatatttttatttttt 432
|||||||
Sbjct: 32036852 gtttgatatttttatttttt 32036870

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 181 ataaaaaaaaattaattat 199
|||||||
Sbjct: 33045678 ataaaaaaaaattaattat 33045660

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaaacaaa 1544
|||||||
Sbjct: 33938804 aaatatattttattataaaaacaaa 33938782

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 416 ttgtatttttatttttttt 434
|||||||
Sbjct: 33970561 ttgtatttttatttttttt 33970543

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 175 caaataataaaaaaaaaaatt 193
|||||||
Sbjct: 34536404 caaataataaaaaaaaaaatt 34536422

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 691 aaacaatagaacaaaatat 709
|||||||
Sbjct: 34601968 aaacaatagaacaaaatat 34601950

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1581 actacaaatcattaaataa 1599
|||||||
Sbjct: 34765306 actacaaatcattaaataa 34765324

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 122 aaaaagaaaaaagaaatgc 140
|||||||
Sbjct: 34917320 aaaaagaaaaaagaaatgc 34917338

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 325 ttcattttttttttcaaaa 343
|||||||
Sbjct: 35089015 ttcattttttttttcaaaa 35088997

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
|||||||
Sbjct: 35218428 aaatatattttattataaaa 35218410

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 35831219 ttaaaaaatatatatttaa 35831201

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 36564297 aaatatattttattataaaa 36564279

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 37017267 tttttttttgttttgtttt 37017285

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 564 ttttatattttatttgattattata 586
 |||||
Sbjct: 37058360 ttttatattttatttgattattata 37058382

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||

Sbjct: 39223119 aaatattttttattataaaa 39223101

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaaatta 194
|||||||
Sbjct: 39269498 aaataataaaaaaaaaaatta 39269516

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 415 tttgtattttttattttttt 433
|||||||
Sbjct: 40227465 tttgtattttttattttttt 40227447

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 415 tttgtattttttattttttttgttatta 441
||||||| ||| |||||
Sbjct: 40349276 tttgtattttttattttctttattatta 40349250

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 410 aattgtttgtattttttatttttt 432
||||||| |||||
Sbjct: 41499751 aattgtttatattttttatttttt 41499773

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 317 tcaaaatgttcattttttttttcaaaa 343
 ||||| ||||| ||||| ||||| |||||
Sbjct: 41971028 tcaaaatgttcattttttttttgaaaa 41971054

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttt 406
 ||||| ||||| ||||| ||||| |||||
Sbjct: 42638871 ttttttttttgttttgttt 42638853

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 420 atttttattttttttgtta 438
 ||||| ||||| ||||| ||||| |||||
Sbjct: 43126485 atttttattttttttgtta 43126503

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
 ||||| ||||| ||||| ||||| |||||
Sbjct: 44392017 ttaaaaaatatatatttaa 44391999

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 522 ttttatgttttatcathtt 540
 ||||| ||||| ||||| ||||| |||||
Sbjct: 44761694 ttttatgttttatcathtt 44761712

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 267 ttaattacatttttttata 285
|||||||
Sbjct: 45960541 ttaattacatttttttata 45960523

>[gb|CM000851.1](#) Glycine max chromosome 18, whole genome shotgun sequence
Length = 62308140

Score = 174 bits (88), Expect = 4e-41
Identities = 447/565 (79%), Gaps = 5/565 (0%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
||||||| ||||| ||||| | | ||| ||||| |||
Sbjct: 16712504 atgcgacacatagaacatcattttggttgatccagttctcaaatatccatttctatgtgg
16712563

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
||||||| || || || ||||| || | | ||||| ||
Sbjct: 16712564 atacgagaggagacaagatgaccattagaatttcttttcttgtcttgggttggggcagatc
16712623

Query: 921 cttggcttgatgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980
||||| |||| |||| ||| | |||| |||| ||| ||| |||||
Sbjct: 16712624 attggctcatgacacggtggccaatacgcctttattgcgtaattctccaaaaaatcatttg
16712683

Query: 981 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
1040
|| | || ||||| | ||||| ||||| ||||| |||||
Sbjct: 16712684 tataagttggagacactttcaatcgtatacacaaaatgtatgtagttcctgtactcatgg
16712743

Query: 1041 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
1097
||||||| || | ||||| ||||| || ||||| ||||| |||||
Sbjct: 16712744 tgagcatgcttacaagcatcaacaacatgagaataaggcatgtgcaatttttggaatttg
16712803

Query: 1098 tcacagtcacactacctttcatctagcttgaccatgaaatttctcactagttgaatctct
1157
||||||| | ||||| || ||| ||||| || || |||||

Sbjct: 16712864 ctct--ggtttattgtgtcctggactaagaactgtgtgtcacatcgatcaaacttaagaa
16712921

Sbjct: 16712922 caatgtgaacatttgcctttctcggatgcatcttcgatgacattgttagtacttgcgat
16712981

Sbjct: 16712982 aaacttggttagatgcaagcattgttgcgacttctctccctcttttggtgaacaatgcat
16713041

```
Query: 1338      tacacctagtatatagggtgattttac 1362
              |||||      || |||||
Sbjct: 16713042 tacaccttagatatgttgattttac 16713066
```

Score = 157 bits (79), Expect = 9e-36
Identities = 266/326 (81%), Gaps = 3/326 (0%)
Strand = Plus / Minus

|||||
Sbjct: 54134135 atacaacaatgagcaacacacatgaagactataaatcatgaaataatatacatagtgatc
54134076

|||||
Sbjct: 54134075 aaataatttgggggatttttcttcaaaactcgattcaagggttcattgcttcatcaaggta
54134016

2702
Sbjct: 54134015 ttgatccaaaccatcga--ttccaagagcttacagaaattgatggtggttgtgcaaattgt
54133958

Query: 1733 ttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaagagttt
1792
 |||||
Sbjct: 54133957 ttatgtgggtgtatcctcagtggtaacatataactcattgtatgtgaggttgtggagttt
54133898

Query: 1793 cccaaatatagaaaacatagtaattatttcctcatcatcttgcagcatacatgccttgta
1852
 || |||| | ||||| | |||| | || | ||||| || ||||| ||
Sbjct: 54133897 cctgaatacaaaaaacataattattatgttcttaacatcttgcagtatgcatgccttata
54133838

Query: 1853 ctgaaaacaatcaccaacaaatgata 1878
 |||||
Sbjct: 54133837 ttgaaaacaatcatcaacaaatgata 54133812

Score = 133 bits (67), Expect = 1e-28
Identities = 134/156 (85%), Gaps = 4/156 (2%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaattacaaaatagatatg----aaattacaaac
694
 |||||
Sbjct: 16712316 acaagttgaattgaactaaaatatttaaatttcaatatatatataaaaattaccaac
16712375

Query: 695 aatagaacaaaatatttaaatttgaaataataacaacaaaattttaaaatacaaacaata
754
 |||||
Sbjct: 16712376 aatagaataaaaatatttaaatttgaaacaataacaaaattttaaaataaaatgaata
16712435

Query: 755 tggcataaaaattaatgttgttggcctgagcctacac 790
 || ||||| |||| ||||| | |||||
Sbjct: 16712436 tgacataaatttaacgttgttggccttaagcctacac 16712471

Score = 129 bits (65), Expect = 2e-27
Identities = 259/322 (80%), Gaps = 5/322 (1%)
Strand = Plus / Plus

Query: 805 gacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgtatac
864
 ||||| ||||| ||||| |||| |||| | |||| |||| ||||| ||||

Sbjct: 49275053 gacacatgaaacatcgctttggttgacctggttctcgaatattcatttcagtgtggatac
 49275112

Query: 865 gagaggagacatgacaacctttagaatctcttttcatttttgggttggggcaaattccttg
 924

|||||
 Sbjct: 49275113 gagaggagacaagatgacccttagaattt--tttcttgtctgggtcagggcagaacattg
 49275170

Query: 925 gcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtaca
 984

|||||
 Sbjct: 49275171 gcttgtgacatggtggccaatacgctttgttgcgcaattctccaaacaatcctctgtata
 49275230

Query: 985 tgttatagatacttttccagcgtatacacaagatgtatgtagttcctataactcatgggtgag
 1044

||||
 Sbjct: 49275231 cgttggagacactttccaacgtatacacaagatgtatgtgggtcatgtactcattgtgag
 49275290

Query: 1045 catgcttataaaca--acaacatgagaacaaaacatgtgcattttttgaaatttgtcac
 1101

||||
 Sbjct: 49275291 cataacttacaagcagcaacaacatgagaacaatgcatgtgcaatttttggaaatttgccac
 49275350

Query: 1102 agtcacactacctttcatctag 1123

|||||
 Sbjct: 49275351 agtcacataaccttttatctag 49275372

Score = 111 bits (56), Expect = 5e-22
 Identities = 91/100 (91%), Gaps = 2/100 (2%)
 Strand = Plus / Minus

Query: 692 aacaatagaacaaaatattttaattt-gaaataatacaacaaaatttttaaatacaaac
 750

|||||
 Sbjct: 15045557 aacaatagaacaaaatattttaattttgaaacaatacaa-aaaaatttttaaatacaaaag
 15045499

Query: 751 aatatggcataaaaattaatgttgttggcctgagcctacac 790

|||||
 Sbjct: 15045498 aatataacataaatttaaatgttgttgggtttgagcctacac 15045459

Score = 105 bits (53), Expect = 3e-20
Identities = 396/507 (78%), Gaps = 5/507 (0%)
Strand = Plus / Minus

Query: 841 ggatatccattttggtgtgtatacagaggagacatgacaacctttagaattttcttttca
900
|||||
Sbjct: 15045388 ggatatccattttcagagtggatatgagagaagataggacgacccttagaattttcttttct
15045329

Query: 901 tttttgggttggggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcaca
960
|||
Sbjct: 15045328 tgtctgggttggcgtaaattcattggcttggagacacagtgcccaatatgctttgttgtgca
15045269

Query: 961 atttcccaagtaatcatttgtacatgttatagatacttttcagcgtatacacaagatgta
1020
||
Sbjct: 15045268 atcctccaaacaatcatttgtataccttggagatactttccaatgtatacacaggatata
15045209

Query: 1021 tgtagttcctataactcatggtgagcatgcttataaaca---acaacatgagaacaaaaca
1077
|||
Sbjct: 15045208 tgtagttcatgtactcatgatgagtgggcttacaagcaccaacaacatgagaacaagaca
15045149

Query: 1078 tgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaat
1137
||
Sbjct: 15045148 tgcacaatctttggaatttgtcatagttacatcacttttcatccaacctgactgtgaaat
15045089

Query: 1138 ttctcactagttgaatctctctctccagttaattgtctcctagactaagaattgtatgtc
1197
|||
Sbjct: 15045088 ttct-agtggattgatc-ctctctcaagtttattatctcatggaccaagaacagtgtgtc
15045031

Query: 1198 gcattaatcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagc
1257
|||
Sbjct: 15045030 acatcgatcgaactcaagaacaatgtgagcgtttgcctttctctgtgcgtcttcgatgac
15044971

Query: 1258 cttgtttaatacttttgtataaaacttcaccaaataatcactcttgcgacttctctccc
1317

||||| |||| | ||||| ||||| ||| ||| ||||| |||||
Sbjct: 15044970 cttgttttagtacttgcatataaacttggccaaatgtaaccattggtgtgacttttctccc
15044911

Query: 1318 cctttggttgaacaatgcattacacct 1344
|||| ||||| |||||
Sbjct: 15044910 tcttttattgaacaatgtgttacacct 15044884

Score = 103 bits (52), Expect = 1e-19
Identities = 140/168 (83%), Gaps = 1/168 (0%)
Strand = Plus / Plus

Query: 1568 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttg-ggga
1626
||||| |||| | ||| ||||| ||||| ||| ||| ||||| ||| |||
Sbjct: 16239325 aacacatatgacgactataaatcattaaataataaaatagcaatcaaataaattcagga
16239384

Query: 1627 ggggggtcttcaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaacct
1686
| ||||| ||||| ||||| ||||| ||| ||| ||||| |||||
Sbjct: 16239385 tgttttcttcaaaactcgattcatggttcattgcttcattgagttattcatccaaacct
16239444

Query: 1687 ccaaattcaaagagcttgacagaaactgggtgggtggtgtgcatatgttt 1734
| ||||| ||||| | ||||| || ||||| ||||| |||||
Sbjct: 16239445 caaaattcaaagagatggcagaaattgatgggtgtatgtgcacatgttt 16239492

Score = 103 bits (52), Expect = 1e-19
Identities = 108/126 (85%), Gaps = 3/126 (2%)
Strand = Plus / Minus

Query: 1015 gatgtatgtagttcctataactcatggtgagcatgcttataaa---caacaacatgagaac
1071
||||| ||||| | ||||| ||||| ||| ||| ||||| |||||
Sbjct: 53700370 gatgtatgtagtttatgtactcatgatgagcatgcttacaagtagcaacaacatgagaac
53700311

Query: 1072 aaaacatgtgcatttttttgaaatttgtcacagtcacactacctttcatctagcttgacca
1131
||| ||||| ||| || ||||| ||||| ||||| ||| ||||| |
Sbjct: 53700310 aaagcatgtgcaatttctggaatttgtcacagtcacaccacctttcttcagcttgatcg
53700251

```
Query: 1582      ctacaaatcattaaataatacaattacaatcaaataatttggggaggggtcttcaaac
1641            |||||||
Sbjct: 53694281 ctacaaatcattaaattatagaatagcaatcaaataaattaggg--ggggtcttcaaac
53694224
```

Score = 93.7 bits (47), Expect = 1e-16
Identities = 77/87 (88%)
Strand = Plus / Minus

Query: 703 aaaatattttaatttgaaataataacaacaaaaattttaaaatacaaacatattggcataa
762

 ||||| ||||| ||||| ||||| ||| ||||| ||||| ||||| |||
Sbjct: 53700702 aaaatattttaatttgaaataataacaacaaaaattttaaaatacaaacatattgacatac
53700643

Query: 763 aattaatggttggtggcctgagcctaca 789

 | | | | ||||| ||||| |||
Sbjct: 53700642 attcaacggttggtggcctgagcctaca 53700616

Score = 91.7 bits (46), Expect = 5e-16
Identities = 252/320 (78%), Gaps = 3/320 (0%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttgggttacctgattcttggatatccattttggtgtgt
860

 ||||| ||||| ||||| ||| ||| ||||| ||||| |||||
Sbjct: 16235773 atgcgacacatgtaacattgctttggttgacctagttctcagatatccattttggtgtgtg
16235832

Query: 861 atacgagaggagacatgacaacctttagaattttcttttcatttttgggttggggcaaatt
920

 |||| ||||| || | | | | ||||| | | | | | | | | |
Sbjct: 16235833 atacaagaggagacagaacgacctttaaattttcttttcttgtctaggtcgaggtagatt
16235892

Query: 921 cttggcttggtgacatgggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980

 ||||| || | || ||| | ||||| |||| ||| |||| ||
Sbjct: 16235893 attggctcgtgttacactggccaatacgcttcattgcataattctccaacaatcatatg
16235952

Query: 981 tacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
1040

 || | || ||||| || | ||||| ||||| ||||| ||| |||
Sbjct: 16235953 tatactttggagatactttccaacttatacacatgatgtatgtagttcctgtactcatgg
16236012

Query: 1041 tgagcatgcttata---aacaacaacatgagaacaaacatgtgcattttttgaaatttg
1097

 ||||| | ||| | ||||| ||||| ||||| | ||| | |||
Sbjct: 16236013 tgagcattcatataagcagcaacaacatgcaacaatgcatgtgtaatttctagaatttg
16236072

Query: 1098 tcacagtcacactacctttc 1117

Query: 843 atatccattttggtgtgtatacgagaggagacatgacaacctttagaatttcttttcatt
902

 ||||| |||| | ||||| || |||| | || || || ||
Sbjct: 53700542 atatccatttcagtgtggatacaagaggagacaagataaccctttgtacttcttttcatt
53700483

Query: 903 tttgggttggggcaaattccttggttgtgacatggtgaccaacatgcttcattg 956

 | |||| | || || ||||| ||||| ||||| ||||| |||||
Sbjct: 53700482 tctgggtcgagggagatcattggcttgtgacatggtgaccaaatatgcttcattg
53700429

Score = 67.9 bits (34), Expect = 7e-09
Identities = 154/194 (79%)
Strand = Plus / Plus

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
1228

 ||||| |||| | ||||| | || ||||| ||||| |||||
Sbjct: 16236142 attgtctcctagaccaagaactgtatgtcgtgtcgattgaactcaagaacagtgtgagcc
16236201

Query: 1229 tttgcctttttctgtatgtctttcatagccttggttaatacttttgtataaaacttcacca
1288

 |||| | |||| | || |||| | || ||||| |||| | ||||| ||||
Sbjct: 16236202 tttgtctttctttgtgtgtctccgatggccttggttagtacttgcgataaaacttggcca
16236261

Query: 1289 aatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacctagta
1348

 ||| | || | |||| | || | |||| | |||| | ||||| ||||| ||||
Sbjct: 16236262 gatgcatgcattggttgcggtttttttccctcttttgttgaataatgcattacaccttaga
16236321

Query: 1349 taggttgattttac 1362

 || ||||| |||||
Sbjct: 16236322 tatgttgattttac 16236335

Score = 63.9 bits (32), Expect = 1e-07
Identities = 38/40 (95%)
Strand = Plus / Minus

Query: 554 tcctttgtatttttattttatttgattattataatacata 593

 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15045726 tcctttgcattttttattttatttgattattaaaatacata 15045687

Score = 63.9 bits (32), Expect = 1e-07
Identities = 70/82 (85%), Gaps = 3/82 (3%)
Strand = Plus / Plus

Query: 995 acttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata
1054
 ||||| || ||||||| ||||||||||||||| || ||||||| ||||||||||||| |
Sbjct: 48245455 actttccaacgtatacaggagatgtatgtagtttctgtactcatgatgagcatgcttaca
48245514

Query: 1055 ---aacaacaacatgagaacaa 1073
 | |||||||||||||||
Sbjct: 48245515 agcagcaacaacatgagaacaa 48245536

Score = 61.9 bits (31), Expect = 4e-07
Identities = 52/59 (88%)
Strand = Plus / Plus

Query: 1431 gccaccatcccatgcgagagtccacttttcttgtggaatcttcctaagctaattaattg
1489
 ||||||||||||||||||| | ||||||| |||||| | ||| |||||||
Sbjct: 16236423 gccaccatcccatgcgagagtctattttcttgtagaatcttggtgagccaattaattg
16236481

Score = 61.9 bits (31), Expect = 4e-07
Identities = 52/59 (88%)
Strand = Plus / Minus

Query: 703 aaaatattttaaatttgaaataataacaacaaaaattttaaaatacaaacatattggcata
761
 ||||||||||||||||||| || | || ||| ||||||||||||||| ||||| ||||
Sbjct: 18460861 aaaatattttaaatttgaaacaaaagaataaaaattttaaaatacaaagaatatgacata
18460803

Score = 61.9 bits (31), Expect = 4e-07
Identities = 64/75 (85%)
Strand = Plus / Plus

Query: 801 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
860


```

      |||| |||| | ||||| ||||| ||| | ||||| ||||| ||||| |||
Sbjct: 48236096 atgcaacacacgaaacatcactttggttaacccggttcttgaatatccattttgatgtgg
48236155

```

```

Query: 861      atacgagaggagaca 875
      ||||| |||||
Sbjct: 48236156 atacgagagaagaca 48236170

```

Score = 61.9 bits (31), Expect = 4e-07
Identities = 40/43 (93%)
Strand = Plus / Minus

```

Query: 1302      ttgcgacttctctccccctttggttgaacaatgcattacacct 1344
      |||| ||||| |||| | ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 53700111 ttgcaacttctctccctcttttgttgaacaatgcattacacct 53700069

```

Score = 60.0 bits (30), Expect = 2e-06
Identities = 45/50 (90%)
Strand = Plus / Minus

```

Query: 1541      caaacacccagtgatacaacaatgaacaacacacatgacaactacaaatc 1590
      ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43711357 caaacacatagtaatacaacaatgaacaacacacatgaagactacaaatc 43711308

```

Score = 56.0 bits (28), Expect = 3e-05
Identities = 49/56 (87%)
Strand = Plus / Plus

```

Query: 1306      gacttctctccccctttggttgaacaatgcattacacctagtatagggttgatttta 1361
      ||||| |||| | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 49275552 gacttctctccttcttttgttgaacaatgcattacaccttagatatgttgatttta
49275607

```

Score = 54.0 bits (27), Expect = 1e-04
Identities = 45/51 (88%)
Strand = Plus / Minus

```

Query: 1421      cccatcgccagccaccatcccatgcgagagtccacttttcttgtggaatct 1471
      ||||| || | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15044789 cccatcgtcaactaccatcccatgcaagagtccatttttcttgcggaatct 15044739

```

Score = 54.0 bits (27), Expect = 1e-04
Identities = 30/31 (96%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
 ||||| |||||
Sbjct: 49274912 acaagttgaattgaactaaaatatttaaatt 49274942

Score = 50.1 bits (25), Expect = 0.002
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1582 ctacaaatcattaaataataacaattacaatcaaataa 1618
 ||||| |||||
Sbjct: 48251684 ctacaaatcattaaataataaaaatatcaatcaaataa 48251720

Score = 48.1 bits (24), Expect = 0.006
Identities = 51/60 (85%)
Strand = Plus / Minus

Query: 1429 cagccaccatcccatgcgagagtccacttttcttgtggaatcttcctaagctaattaatt
1488
 |||| | ||||| ||||| ||||| | | ||||| ||||| |||||
Sbjct: 53699965 cagctaccatcccatgcaagagtccatttttctcgcgaaatcttgtaagccaattaatt
53699906

Score = 46.1 bits (23), Expect = 0.025
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 643 gttgacttgaactaaaatatttaaatt 669
 |||| | |||||
Sbjct: 16235640 gttgaattgaactaaaatatttaaatt 16235666

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

```

Query: 643      gttgacttgaactaaaatattttaa 668
           ||||| ||||||||||||||||
Sbjct: 15045656 gttgaattgaactaaaatattttaa 15045631

```

Score = 44.1 bits (22), Expect = 0.098
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 1438 tcccatgcgagagtccacttttcttgtggaatct 1471
|||||||
Sbjct: 48247526 tcccatgcgagagtccatttttctcgttgaatct 48247559

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 607 ttaattgaaattaaaaaatatatatt 632
|||||||
Sbjct: 59185349 ttaattgaaatgaaaaaatatatatt 59185374

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 277 ttttttatacathtagaaatt 297
|||||||
Sbjct: 1422086 ttttttatacathtagaaatt 1422106

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 410 aattgtttgtatttttattttttttggtta 438
|||||||
Sbjct: 5267347 aattgtttgttttttaatttttttttggtta 5267375

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatatttaa 635
|||||||
Sbjct: 14543648 aattaaaaaatatatatttaa 14543628

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttt 407
|||||
Sbjct: 29359519 cttttttttttgttttgtttt 29359539

Score = 42.1 bits (21), Expect = 0.39
Identities = 36/41 (87%)
Strand = Plus / Minus

Query: 1416 gtgtcccatcgccagccaccatcccatgagagtcact 1456
|||||
Sbjct: 43714058 gtgtcccatcgtcggcctacatcccatgtgagagtcact 43714018

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1859 acaatcaccaacaaatgatac 1879
|||||
Sbjct: 53694007 acaatcaccaacaaatgatac 53693987

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatttaa 635
|||||
Sbjct: 54453247 aattaaaaaatatatatttaa 54453267

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttta 408

|||||
Sbjct: 58477600 ttttttttttgttttgtttta 58477580

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 387 ctttttttttgttttgttttaa 410
|||||
Sbjct: 728435 ctttattttttgttttgttttaa 728458

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
|||||
Sbjct: 5045609 ttttttttttgttttgtttt 5045590

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 420 atttttattttttttgttattaat 443
|||||
Sbjct: 6896227 atttttattttttttattattaat 6896204

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 166 ttttttatccaaataataaaaaaa 189
|||||
Sbjct: 9791981 ttttttatcctaataataaaaaaa 9792004

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 421 tttttatTTTTTTTgttattaatt 444
 |||||
Sbjct: 11344980 tttttatTTTTTTTattattaatt 11344957

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 557 tttgtatTTTTTatTTTatTT 576
 |||||
Sbjct: 13080664 tttgtatTTTTTatTTTatTT 13080683

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 387 cTTTTTTTTTgtTTTgtTT 406
 |||||
Sbjct: 16300369 cTTTTTTTTTgtTTTgtTT 16300388

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 tTTTTTTTTTgtTTTgtTT 407
 |||||
Sbjct: 20345948 tTTTTTTTTTgtTTTgtTT 20345967

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 118 atcgaaaaagaaaaagaaa 137
 |||||
Sbjct: 23490028 atcgaaaaagaaaaagaaa 23490047

Score = 40.1 bits (20), Expect = 1.5
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 399 ttttgttttaaaattgtttgtatttttatttttttt 434
 ||||| |||| | ||||| ||||| |||||
Sbjct: 29027874 ttttgttttattgttgtgtgtatttttatttttttt 29027839

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 197 tatttacccaaaaaattatt 216
 ||||| ||||| ||||| ||||| |||||
Sbjct: 41967637 tatttacccaaaaaattatt 41967656

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 610 attgaaattaaaaaatatatattt 633
 ||||| ||||| ||||| ||||| |||||
Sbjct: 49591318 attgaagttaaaaaaatatatattt 49591341

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatatt 632
 ||||| ||||| ||||| ||||| |||||
Sbjct: 51671531 gaaattaaaaaatatatatt 51671512

Score = 40.1 bits (20), Expect = 1.5
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 685 aattacaaacaatagaacaaaatatttaaatt 716
 ||||| |||| | |||| | ||||| |||||
Sbjct: 54136798 aattacaaaaatacacataaatatttaaatt 54136767

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaattat 199
 |||||
Sbjct: 57031218 aataaaaaaaaaattaattat 57031199

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 270 attacatttttttatacatttaga 293
 |||| |
Sbjct: 58741626 attatatttttttatacatttaga 58741649

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 58794993 ttttttttttgttttgtttt 58795012

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 393 tttttgttttgttttaaaat 412
 |||||
Sbjct: 59185290 tttttgttttgttttaaaat 59185309

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407

|||||||
Sbjct: 61694026 ttttttttttgttttgtttt 61694045

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 417 tgtatTTTTtattttttttgttatt 440
|||||||
Sbjct: 61982609 tgtatTTTTtattttttttattatt 61982586

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 415 tttgtatTTTTtattttttt 433
|||||||
Sbjct: 142853 tttgtatTTTTtattttttt 142871

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 175 caaataataaaaaaaaaaatt 193
|||||||
Sbjct: 715979 caaataataaaaaaaaaaatt 715997

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
|||||||
Sbjct: 1094132 ttttttttttgttttgttt 1094150

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
|||||||
Sbjct: 1368666 aaattaaaaaatatatatt 1368684

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 561 tattttttattttatttgattattataa 587
||||||| ||| |||||
Sbjct: 3241609 tattttttattttattttattttataa 3241583

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtattttttatttttt 432
|||||||
Sbjct: 3477086 gtttgtattttttatttttt 3477068

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatat 631
|||||||
Sbjct: 4688182 gaaattaaaaaatatatat 4688164

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 619 aaaaaatatatatatttaact 637
|||||||
Sbjct: 4793411 aaaaaatatatatatttaact 4793393

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaaacaaa 1544
 |||||
Sbjct: 5082408 aaatatattttattataaaaacaaa 5082430

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaaatta 194
 |||||
Sbjct: 5241569 aaataataaaaaaaaaaatta 5241587

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 416 ttgtattttttattttttttt 434
 |||||
Sbjct: 5297295 ttgtattttttattttttttt 5297277

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 419 tattttttattttttttgttatta 441
 |||||
Sbjct: 5801658 tattttttttttttttgttatta 5801636

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 728 aacaaaaatttttaaatacaaac 750
 |||||
Sbjct: 6364761 aacaaaaatttttaataatacaaac 6364739

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatattttatattttt 432
|||||||
Sbjct: 6851262 gtttgtatattttatattttt 6851244

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 558 ttgtatattttatattttt 576
|||||||
Sbjct: 7165300 ttgtatattttatattttt 7165282

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
|||||||
Sbjct: 7260237 aaatatattttattataaaa 7260255

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 268 taattacatttttttatac 286
|||||||
Sbjct: 7375959 taattacatttttttatac 7375977

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 384 ttgcttttttttttgtttt 406

|||||
Sbjct: 7789541 ttgcttttttttttttttttggttt 7789563

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
|||||
Sbjct: 10785996 tttttttttgttttgtttt 10785978

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
|||||
Sbjct: 10788728 tttttttttgttttgtttt 10788746

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 182 taaaaaaaaattaattatt 200
|||||
Sbjct: 12157650 taaaaaaaaattaattatt 12157632

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaattaatta 198
|||||
Sbjct: 13231543 aaataataaaataaaattaatta 13231565

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 329 ttttttttttcaaaaccaa 347
 |||||
Sbjct: 13550092 ttttttttttcaaaaccaa 13550110

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 552 aatcctttgtatttttat 574
 |||||
Sbjct: 14538001 aatcctttgaatttttat 14537979

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 164 ttttttttatccaaataat 182
 |||||
Sbjct: 14879723 ttttttttatccaaataat 14879741

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 178 ataataaaaaaaattaat 196
 |||||
Sbjct: 15084949 ataataaaaaaaattaat 15084967

Score = 38.2 bits (19), Expect = 6.1
Identities = 40/47 (85%)
Strand = Plus / Plus

Query: 1416 gtgtcccatcgccagccaccatcccatgagagtcacttttctt 1462
 |||||
Sbjct: 16713131 gtgtcccatcattagccaccatcccatgtgagactctatttttctt 16713177

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 712 aaatttgaaataataacaac 730
|||||||
Sbjct: 16781749 aaatttgaaataataacaac 16781731

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 180 aataaaaaaaaaattaattattta 202
|||||||
Sbjct: 17001937 aataaaaaaaaaatgaattattta 17001959

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaattattta 202
|||||||
Sbjct: 17085208 aataaaaaaaaaattcattattta 17085186

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaaa 410
|||||||
Sbjct: 17517103 ttttttttttgttttattttaaa 17517081

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaatta 198
|||||||
Sbjct: 18384096 aataaaaaaaaaattaatta 18384078

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatattt 633
 |||||||
Sbjct: 19935610 aattaaaaaatatatatattt 19935628

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 615 aattaaaaaatatatatattt 633
 |||||||
Sbjct: 20121113 aattaaaaaatatatatattt 20121095

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 564 ttttattttatttgattat 582
 |||||||
Sbjct: 21373298 ttttattttatttgattat 21373280

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattt 632
 |||||||
Sbjct: 21699264 aaattaaaaaatatatattt 21699282

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 382 aattgcttttttttttgttttgtttta 408

|||||
Sbjct: 28047921 aattgcttttttttttggtttatttta 28047895

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 552 aatcctttgtatttttattttat 574
|||||
Sbjct: 31157126 aatcctttgtagttttattttat 31157148

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 563 tttttattttatttgattattat 585
|||||
Sbjct: 33298162 tttttattttattttattattat 33298140

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 316 ttcaaaatgttcatttttttttt 338
|||||
Sbjct: 34234377 ttcaaaatgttgatttttttttt 34234399

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1080 tgcattttttgaaatttgt 1098
|||||
Sbjct: 37008027 tgcattttttgaaatttgt 37008045

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 184 aaaaaaaattaattatttta 202
 |||||
Sbjct: 38082618 aaaaaaaattaattatttta 38082636

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
 |||||
Sbjct: 41741304 aaattaaaaaatatatatt 41741286

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 419 tattttttattttttttggt 437
 |||||
Sbjct: 42890772 tattttttattttttttggt 42890790

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttggttt 407
 |||||
Sbjct: 43953776 tttttttttgttttggttt 43953794

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1048 gcttataaacaacaacatg 1066
 |||||
Sbjct: 45455989 gcttataaacaacaacatg 45455971

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 386 gcttttttttttgttttgttttaaaat 412
||||| | |||||
Sbjct: 45740765 gcttttatatttgttttgttttaaaat 45740739

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttttgttttgtttt 407
|||||
Sbjct: 46774671 ttttttttttgttttgtttt 46774653

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttttgttttgtttt 407
|||||
Sbjct: 46882369 ttttttttttgttttgtttt 46882351

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttttgttttgtttt 407
|||||
Sbjct: 47016903 ttttttttttgttttgtttt 47016885

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttttgttttgtttt 407
|||||
Sbjct: 47048862 ttttttttttgttttgtttt 47048844

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 47611129 aaatatattttattataaaa 47611111

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 181 ataaaaaaaaattaattat 199
 |||||
Sbjct: 47760992 ataaaaaaaaattaattat 47761010

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 334 tttttcaaaaccaagttaagaaatcgg 360
 |||| |||||
Sbjct: 48260883 ttttgcaaaaccaagttaagaattcgg 48260909

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1594 aaataatacaattacaatcaa 1616
 |||||
Sbjct: 48586674 aaataatacaattacaaacaa 48586652

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacatttagaaatt 297

|||||
Sbjct: 49324062 ttttatacatttagaaatt 49324080

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaa 410
|||||
Sbjct: 50127541 ttttttttttgttttttttaa 50127519

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 568 attttatttgattattata 586
|||||
Sbjct: 50306786 attttatttgattattata 50306804

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 279 ttttatacatttagaaatt 297
|||||
Sbjct: 50506480 ttttatacatttagaaatt 50506462

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 561 tatttttattttatttgattatt 583
|||||
Sbjct: 50794802 tatttttatttaatttgattatt 50794824

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaaa 410
 ||||| ||||||||||||||||
Sbjct: 50952913 tttttattttgttttgttttaaa 50952891

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 810 atggaacatcattttggtttacc 832
 ||||||| ||||||||||||||||
Sbjct: 51242256 atggaacaccattttggtttacc 51242234

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatattttaatt 669
 ||||||| | |||||||||||||||| ||||
Sbjct: 53700719 acaagtttaattgaactaaaatattttaatt 53700689

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 183 aaaaaaaaaattaattatatt 201
 ||||||||||||||||||||
Sbjct: 54944754 aaaaaaaaaattaattatatt 54944772

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttt 432
 ||||||||||||||||||||
Sbjct: 55358357 gtttgtatttttatttttt 55358375

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 710 tttaaatttgaaataataca 728
 |||||
Sbjct: 56754755 tttaaatttgaaataataca 56754773

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 695 aatagaacaaaatatttaa 713
 |||||
Sbjct: 57029840 aatagaacaaaatatttaa 57029822

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 168 ttttatccaaataataaaa 186
 |||||
Sbjct: 58113110 ttttatccaaataataaaa 58113092

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 704 aaatatttaaatttgaaataata 726
 |||||
Sbjct: 58404633 aaatatttaaattttaaataata 58404611

>[gb|CM000837.1](#) Glycine max chromosome 4, whole genome shotgun sequence
Length = 49243852

Score = 163 bits (82), Expect = 2e-37
Identities = 269/329 (81%), Gaps = 3/329 (0%)
Strand = Plus / Minus

Query: 1554 atacaacaatgaacaacacacatgacaactacaaatcattaataataacaattacaatca
1613

Sbjct: 25751327 atacaataatgaaaaacacacatgaagactacaaatcattaaataataaaatagtaatca
25751268

Query: 1614 aataatt-tggggaggggggt--cttcaaaacttgattcaagggttcattgtatcatcgagg
1670

Sbjct: 25751267 aataaatatggaggggggggtttcttcaaaactcgattcaagggttcattacttcatcgaga
25751208

Query: 1671 tattcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtggtgtgcatat
1730

Sbjct: 25751207 tattcatcccaaccatccaaattcaaagagttggtagaaattgggtgatggatgtgcacat
25751148

Query: 1731 gtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaagagt
1790

Sbjct: 25751147 gtttgtgtaggtgtgtctatagtggtaatatataactccaagcatgtgagcttggatatt
25751088

Query: 1791 ttcccaaatatagaaaacatagtaattatttcctcatcatcttgagcagatacatgccttg
1850

Sbjct: 25751087 ttttgaacatggaaaacatagtcattacatcctcatcatcgtgcaacatgcatgccgtg
25751028

Query: 1851 tactgaaaacaatcaccaacaaatgatac 1879

Sbjct: 25751027 tactggccacaatcaccaacaaaagatac 25750999

Score = 151 bits (76), Expect = 6e-34
Identities = 436/551 (79%), Gaps = 5/551 (0%)
Strand = Plus / Plus

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920

Sbjct: 16932778 atacgagaggagacaggatgacatttggaaatttcttttctgtccgggtcagggcagatt
16932837

Query: 921 cttggcttgtgacatgggtgaccaacatgcttcattgcacaatttccaagtaatcatttg
980

Sbjct: 16932838 attggcttgtggcacgatggccaatatgcttgggtgcacaattgaccaaacaatcctatg
16932897

Query: 1041 tgagcatgcttataaacaacaacatgagaacaaaacatgtgcattttttgaaatttgtca
1100

Query: 1101 cagtcacactacctttcatctagcttgaccatgaaatttctcact-agttgaatctctct
1159

Query: 1160 ctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaaca
1219

Query: 1220 atgtgagagtttgcctttttctgtatgtctttcatagccttgtttaatacttttgtataa
1279

Query: 1280 acttcaccaaagtgaatcactcttgcgacttctctccccctttggttgaacaatgcatta
1339

Query: 1340 cacctagtataggttgattttaccaacacac--attgccagattttgtgttttcttgagt
1397

Sbjct: 16933316 ||||| 16933326

Score = 109 bits (55), Expect = 2e-21
Identities = 160/194 (82%), Gaps = 2/194 (1%)
Strand = Plus / Minus

Query: 1169 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
1228
||||||| ||| ||||| || ||||| || ||| ||||| ||||| ||||| |
Sbjct: 25783543 attgtctcctggaccaagaatcgtgtgtcgcgttgatcaaactcaagaaca--gtgagcg
25783486

Query: 1229 tttgccttttctgtatgtctttcatagccttggttaataacttttgataaaacttcacca
1288
||||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25783485 tttgccttttctgtgtgtctttgatggccttggttagtacttgcatataaaacttgcca
25783426

Query: 1289 aatgtaatcactcttgcgacttctctcccccttggttgaacaatgcattacacctagta
1348
|| || || || ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25783425 gattcaagcattggtgcggcttctctcgctcttttggttgaacaatgcattacaccttaga
25783366

Query: 1349 taggttgattttac 1362
|| ||||| |||||
Sbjct: 25783365 tatgttgattttac 25783352

Score = 107 bits (54), Expect = 8e-21
Identities = 116/136 (85%), Gaps = 3/136 (2%)
Strand = Plus / Minus

Query: 1005 gtatacacaagatgtatgtagttcctataactcatggtgagcatgcttataaaca---aca
1061
||||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 19395262 gtatacacaagatgtatgtagtttttgactcattatgagcatgcttacaagcagcaaca
19395203

Query: 1062 acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
1121
||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 19395202 acacgagaacaatgcatgtgaaatttctgaaatttgtcacagccacaccacctttcatcc
19395143

Query: 1122 agcttgaccatgaaat 1137
||| ||||| |||||
Sbjct: 19395142 agcctgaccatgaaat 19395127

Score = 105 bits (53), Expect = 3e-20
Identities = 169/203 (83%), Gaps = 6/203 (2%)
Strand = Plus / Plus

Query: 1582 ctacaaatcattaaataataacaattacaatcaaataatttggggaggggg--tcttcaa
1638
||||| ||||| ||| ||||| ||||| | ||| |||||
Sbjct: 11992218 ctacaaatccttaaataataaaaatagcaatcaaataaattgggaggtggggcttcttcaa
11992277

Query: 1639 aa-cttgattcaagggttcattgtatcatcgaggtattcacccaaaccctccaaattcaaa
1697
|| ||||| ||||| ||| ||||| ||||| ||||| ||| ||| |||
Sbjct: 11992278 aagcttgattcaagggttcattgcttgagcgaggtattcatccaaatcctcataattgaaa
11992337

Query: 1698 gagcttgc-agaaaactggtggtggttgtgcatatgtttatgtgggtgtgtctacgggtgat
1756
||| |||| |||| | ||||| ||||| ||||| ||||| ||||| |||
Sbjct: 11992338 gag-ttgctagaaattagtgggtgatgtgcacatgtttgtgtgggtgagctacggaggt
11992396

Query: 1757 aacataaaaactcaaggcatgtga 1779
|| ||| |||| ||||| |||||
Sbjct: 11992397 aatatacaactccaggcatgtga 11992419

Score = 101 bits (51), Expect = 5e-19
Identities = 99/115 (86%)
Strand = Plus / Minus

Query: 1634 ttcaaaaacttgattcaagggttcattgtatcatcgaggtattcacccaaaccctccaaatt
1693
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29501156 ttcaaaaactcgattcaggggttcattgcttcatcgagttattcatctaaaccctccaaatt
29501097

Query: 1694 caaagagcttgcagaaaactggtggtggttgtgcatatgtttatgtgggtgtgtct 1748
||||| || |||| |||| ||| |||| | ||||| ||||| ||||| |||||
Sbjct: 29501096 caaagagctggccgaaattggttatggatgtgtacatgtttgtgtgggtgtgtct
29501042

Score = 97.6 bits (49), Expect = 8e-18

Sbjct: 9130104 |||||
9130163 |||||

```

Query: 763      aattaatgttggtggcctgagccta 787
               | | ||||| ||||| ||||| |||||
Sbjct: 9130164 attcaatgttattgacttgagccta 9130188

```

Score = 97.6 bits (49), Expect = 8e-18
Identities = 240/302 (79%), Gaps = 5/302 (1%)
Strand = Plus / Minus

```
Query: 822      tttgggtttacctgattcttggatatccattttgggtgtgtatacgagaggagacatgacaa
881      |||||
Sbjct: 25783889 tttgggttgacccaattctcgaatatccatttcggtatggatacgagaggagacaagacga
25783830
```

```
Query: 882      cctttagaatttcttttcatttttggttggggcaaatcttggccttgacatggtgac
941            ||| | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 25783829 cccttagatttttttttatcta--gattgtggcatatcattggctcgtgacatggtggc
25783772
```

```
Query: 942      caacatgcttcattgcacaatttcccaagtaatcatttgtacatggtatagatacttttc
1001           ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 25783771 caatacacttcattgtataattctccaaacaatcctttgtatacgttggagacactttcc
25783712
```

```
Query: 1002      agcgtatacacaagatgtatgtagttcctatactcatgggtgagcatgcttataa--aca
1058            | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 25783711 aacatatacataggaatatatgtagttcatgtcctcatgggtgagcatgcataacaatcaaca
25783652
```

```
Query: 1059      acaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttca
1118            |||
Sbjct: 25783651 acaacatgagaacaaggcatgtgcaattttctgtaattttccacagtcacaccacctttca
25783592
```

```
Query: 1057      caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
1116            |||
Sbjct: 9285916  caacaacatgagaacaaggcatgtgcaacttctgaaatttgtcacagtcacaccaccttt
9285975
```

```
Query: 703      aaaatatTTTaaatttgaaataataacaacaaaaattttTaaaatacaaaacaatatggcataa
762            |||||
Sbjct: 11976185 aaaatatTTTaaatttgaaataataacaacaaaaattttTaaaatacaaaacaatatggcatac
11976244
```

```
Query: 640          caagttgacttgaactaaaatatatttaaattacaaaatagatatgaaattacaaacaatag
699                |||
Sbjct: 16932546    caagttgagttgaactaaaatacttaaattaaaaaatatatt-taaaattattaataatag
16932604
```

Query: 700 aacaaaaatattttaaatTTGaaataataca 728
 |||||
Sbjct: 16932605 aacaaaaatattttaaatTTGaaataataca 16932633

Score = 87.7 bits (44), Expect = 7e-15
Identities = 80/92 (86%)
Strand = Plus / Minus

Query: 703 aaaatattttaaatTTGaaataatacaacaaaaattTTTaaaatacaaaacaatatggcataa
762
 ||||| ||||| ||| ||||| ||
Sbjct: 36043717 aaaatattttaaatTTGaaataatacaacaaaaattTTTaaaatacaaaacaatatgggtgtac
36043658

Query: 763 aattaatgttTgtTggcctgagcctacacaatg 794
 ||| ||||| |||||
Sbjct: 36043657 attcaacgttTgtTggcctggagcctacacaatg 36043626

Score = 85.7 bits (43), Expect = 3e-14
Identities = 67/75 (89%)
Strand = Plus / Minus

Query: 715 tttGaaataatacaacaaaaattTTTaaaatacaaaacaatatggcataaaaattaatgttTgt
774
 ||||| ||||| ||| ||||| ||||| ||| ||| |||||
Sbjct: 19395574 tttGaaataatacaacaaaaattTTTaaaatacaaaacaatatgacatacattcaatgttTgt
19395515

Query: 775 Tggcctgagcctaca 789
 ||| |||||
Sbjct: 19395514 Tggcctgagcctaca 19395500

Score = 81.8 bits (41), Expect = 5e-13
Identities = 62/69 (89%)
Strand = Plus / Minus

Query: 1420 ccccatcgccagccaccatcccatgcgagagTccactTTTtctTgtggaatcttcctaagc
1479
 ||||| ||||| ||||| ||| ||||| |||
Sbjct: 36042975 ccccatcgTcagccaccatcccatgcgagagTccattTTTtctcgTgaaatcttcctgaac
36042916

Query: 1480 taattaatt 1488
 |||||
Sbjct: 36042915 caattaatt 36042907

Score = 81.8 bits (41), Expect = 5e-13
Identities = 131/161 (81%)
Strand = Plus / Minus

Query: 1184 aagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgt
1243
 ||||| ||| | | ||||| ||||| ||||| ||||| | ||
Sbjct: 36043222 aagaattgtgtgtcccgttgatcgaactcaagaacattgtgagtggttgcctttctaagt
36043163

Query: 1244 atgtctttcatagccttggttaataacttttgataaaacttcaccaaataatcactctt
1303
 ||| ||||| ||||| ||||| ||||| || || || || ||
Sbjct: 36043162 gcttcttcagtagccttggttagtactttcgtataaaacttggtcagatgcaagcattatt
36043103

Query: 1304 gcgacttctctccccctttggttgaacaatgcattacacct 1344
 | ||||| ||||| ||| | ||||| ||||| |||||
Sbjct: 36043102 gtgacttctctccctcttttattcaacaatgcattacacct 36043062

Score = 75.8 bits (38), Expect = 3e-11
Identities = 265/340 (77%), Gaps = 3/340 (0%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
860
 ||||| | |||| ||||| ||| ||| ||||| ||||| |||||
Sbjct: 36043597 atgcgacacaggaaacattgttttggttgacctagttctcggatatccatttcggtgtgg
36043538

Query: 861 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
920
 ||||| | || | || |||| | ||||| || |||| |||| ||
Sbjct: 36043537 atacgagtgaacaagatgaccattagtagtcttcttttctgggtcgggggagatc
36043478

Query: 921 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
980
 ||||| || ||||| | | |||| ||||| |||| |||| | ||

Sbjct: 36043417 tatacgttgagaaacattccaacgtatatacaagatgcatgtagtttttgtactcacga
36043358

Sbjct: 36043357 tgaacatgcttacaagcaacaacaacatgagaataaggcttgtagcaacttctggaatttg
36043298

```
Query: 1098      tcacagtcacactacctttcatctagcttgaccatgaaat 1137
                ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 36043297 ctacagtcacaccacctttcatccagcctaaccatgaaat 36043258
```

Score = 69.9 bits (35), Expect = 2e-09
Identities = 89/107 (83%)
Strand = Plus / Plus

Sbjct: 9285542 aattaccaacaacggaacaaaatatataaatttgaattaagaccacaaaattttacaaat
9285601

```
Query: 745      acaaacacaatatggcataaaattaatgttgttgacctgagcctacaca 791
                ||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 9285602 acaaacacaatatgcatacatccaacattgtttgacctgaacctacaca 9285648
```

Score = 67.9 bits (34), Expect = 7e-09
Identities = 88/106 (83%)
Strand = Plus / Minus

Sbjct: 19395011 ccttggttagtacttctatataaacttggccaaatgcaagcattggtgtggcttctctcc
19394952

Query: 1317 ccctttggttgaacaatgcattacacctaagtataggttgattttac 1362

| ||| |||||||||||||||||||| ||| |||||||||
Sbjct: 19394951 catttttgttgaacaatgcattacaccttacatatgttgattttac 19394906

Score = 65.9 bits (33), Expect = 3e-08
Identities = 45/49 (91%)
Strand = Plus / Minus

Query: 1441 catgcgagagtccacttttcttgtggaatcttcctaagctaattaattg 1489
 ||||||||||||| ||| ||||||||||||| |||||||||||||
Sbjct: 19394807 catgcgagagtccatttttttgtggaatcttgtaagctaattaattg 19394759

Score = 63.9 bits (32), Expect = 1e-07
Identities = 68/80 (85%)
Strand = Plus / Minus

Query: 1800 atagaaaacatagtaattatttcctcatcatcttgcagcatacatgccctgtactgaaaa
1859
 ||||||||||| | ||||| ||||||||||||| ||| ||| ||||||||| |
Sbjct: 29500984 atagaaaacatcatcattatgtcctcatcatcttgttagcaagcataccctgtactggcta
29500925

Query: 1860 caatcaccaacaaatgatac 1879
 ||||||||| |||||||
Sbjct: 29500924 caatcaccaataaatgatac 29500905

Score = 61.9 bits (31), Expect = 4e-07
Identities = 58/67 (86%)
Strand = Plus / Minus

Query: 843 atatccattttggtgtgtatacgagaggagacatgacaacctttagaattttcttttcatt
902
 ||||||||| ||||||||||||| || || ||| | ||||||||||||| | |||
Sbjct: 14520505 atatatcatttcggtgtgtatacgagaagatactagacgatctttagaattttcttattatt
14520446

Query: 903 tttgggt 909
 |||||
Sbjct: 14520445 tttgggt 14520439

Score = 60.0 bits (30), Expect = 2e-06

Identities = 87/105 (82%), Gaps = 2/105 (1%)
Strand = Plus / Plus

Query: 1307 acttctctccccctttggttgaacaatgcattacacctagtatataggttgattttaccaac 1366
||||| |||| |||| ||||||||||||||||||| ||| || ||||||||| ||
Sbjct: 11976711 acttctttccctcttttggttgaacaatgcattacacctacatatgtggattttactagc 11976770

Query: 1367 acac--attgccagattttgtgttttcttgagtaccaaattaatt 1409
|||| |||| || |||| || ||||||||||||||| |||||||
Sbjct: 11976771 acacctattggcaaatttcttgatttcttgagtacgaaattaatt 11976815

Score = 60.0 bits (30), Expect = 2e-06
Identities = 36/38 (94%)
Strand = Plus / Minus

Query: 554 tcctttgtatttttattttatttgattattataatata 591
||||||||||||| ||||||||||||||| |||||
Sbjct: 41003290 tcctttgtattttcattttatttgattattaaaatata 41003253

Score = 56.0 bits (28), Expect = 3e-05
Identities = 73/88 (82%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt 860
||||||||| ||||||| ||||||| || || |||| ||||||||||||| |||||
Sbjct: 19395466 atgcgacacacaaaacatcattttggttgacttggttctcggatatccatttcagtgtgg 19395407

Query: 861 atacgagaggagacatgacaaccttttag 888
||||||||||| || ||||||| |||||
Sbjct: 19395406 atacgagaggaaacgagacaacccttag 19395379

Score = 54.0 bits (27), Expect = 1e-04
Identities = 30/31 (96%)
Strand = Plus / Plus

Query: 639 acaagttgacttgaactaaaatatatttaaatt 669
||||||||| |||||||||||||||||||
Sbjct: 9130087 acaagttgaattgaactaaaatatatttaaatt 9130117

Score = 54.0 bits (27), Expect = 1e-04
Identities = 90/111 (81%)
Strand = Plus / Plus

Query: 834 gattcttggatatccattttggtgtgtatacagagaggagacatgacaacctttagaattt
893
Sbjct: 9130257 gattctcggatatccatttcagtgtgaatacagagaggagacaggaagatccttagtactt
9130316

Query: 894 cttttcatttttgggttggggcaaattcctggcttgtgacatggtgaccaa 944
Sbjct: 9130317 cttttcatttttgggttagggaagatcattggctcatgacacggtgaccaa 9130367

Score = 50.1 bits (25), Expect = 0.002
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 557 tttgtatttttattttatttgatta 581
Sbjct: 1693709 tttgtatttttattttatttgatta 1693685

Score = 50.1 bits (25), Expect = 0.002
Identities = 55/65 (84%)
Strand = Plus / Minus

Query: 856 tgtgtatacagagaggagacatgacaacctttagaatttcttttcatttttgggttggggc
915
Sbjct: 22220424 tgtgtatatgagaggatattggacaacatttagaattttttaacatttttgggttggggc
22220365

Query: 916 aaatt 920
Sbjct: 22220364 aaatt 22220360

Score = 50.1 bits (25), Expect = 0.002
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 1561 aatgaacaacacacatgacaactacaaatcattaaataata 1601
 ||||| || ||||| || ||||| ||||| ||||| |||||
Sbjct: 29501236 aatgaaaaatacacatgatgactacaaatcattaaataata 29501196

Score = 48.1 bits (24), Expect = 0.006
Identities = 63/76 (82%)
Strand = Plus / Plus

Query: 1804 aaaacatagtaattatttcctcatcatcttgacgcatacatgccctgtactgaaaacaat
1863
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9133776 aaaacatagtcattacatcctcgatcatcgatgcaacatgcatgctatgtacttcccacaat
9133835

Query: 1864 caccaacaaatgatac 1879
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9133836 caccaacaaatgatac 9133851

Score = 48.1 bits (24), Expect = 0.006
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 1388 tttcttgagtaccaaattaattaactca 1415
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9286247 tttcttgagtaccaaattaattgactca 9286274

Score = 48.1 bits (24), Expect = 0.006
Identities = 54/64 (84%)
Strand = Plus / Plus

Query: 804 cgacacatggaacatcattttgggtttacctgattccttggatatccattttgggtgtgtata
863
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11976308 cgacacacgaaacatcgctttgggttgacccattctcgatatccattttgatgtggata
11976367

Query: 864 cgag 867
 ||||
Sbjct: 11976368 cgag 11976371

Score = 48.1 bits (24), Expect = 0.006
Identities = 36/40 (90%)
Strand = Plus / Plus

Query: 1432 ccaccatcccatgcgagagtccacttttcttggaatct 1471
|||||
Sbjct: 16933367 ccaccatcccatgcaagagtccatttttcatgcggaatct 16933406

Score = 46.1 bits (23), Expect = 0.025
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 558 ttgtatttttattttatttgattatta 584
|||||
Sbjct: 9285457 ttgtattttcattttatttgattatta 9285483

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 604 aacttaattgaaattaaaaaatatatattta 634
|||||
Sbjct: 48676874 aacttaattcaaataaaaaaatatatattta 48676904

Score = 44.1 bits (22), Expect = 0.098
Identities = 43/50 (86%)
Strand = Plus / Plus

Query: 1582 ctacaaatcattaaataataacaattacaatcaaataatttggggaggggg 1631
|||||
Sbjct: 9133548 ctacaaatcattacataataaaatgatattcaaataaattgggggggggg 9133597

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 421 tttttattttttttggttattaattgt 446
|||||

Sbjct: 18851692 tttttattttttttgtttttaattgt 18851717

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 613 gaaattaaaaaatatatattta 634
|||||
Sbjct: 46045942 gaaattaaaaaatatatattta 46045921

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 448 tatatttggtgttctgtttaaat 469
|||||
Sbjct: 46697910 tatatttggtgttctgtttaaat 46697889

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaaaatatatatttaa 635
|||||
Sbjct: 67366 ttgaaattaaaaaatatataattaa 67342

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 387 cttttttttttgttttgttttaaaa 411
|||||
Sbjct: 1837828 cttttttttttgttttgttttaaaa 1837804

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttttt 434
|||||||
Sbjct: 6163456 gtttgtatttttatttttttt 6163476

Score = 42.1 bits (21), Expect = 0.39
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 1622 ggggaggggggtcttcaaaacttgattcaagggttcatt 1658
|||| |||| | |||||
Sbjct: 9133594 gggggggggggccttcctaacttgattcaagggttcatt 9133630

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 611 ttgaaattaaaaaatatatat 631
|||||||
Sbjct: 21678447 ttgaaattaaaaaatatatat 21678467

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 703 aaaatatttaaatttgaaataataaca 731
||||||| ||||
Sbjct: 25784027 aaaatatttaaatttgaaacaataaaaaca 25783999

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1859 acaatcaccaacaaatgatac 1879
|||||||
Sbjct: 36038826 acaatcaccaacaaatgatac 36038806

Score = 42.1 bits (21), Expect = 0.39

Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 405 tttaaaattgtttgtatttttat 429
 ||||| |||||
Sbjct: 43209678 tttaaaattgtttgtatttttat 43209654

Score = 42.1 bits (21), Expect = 0.39
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 571 ttatttgattattataatacataattaaa 599
 ||||| ||||| |||||
Sbjct: 44493954 ttattttattattataatatataattaaa 44493926

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 387 cttttttttttgttttgtttt 407
 ||||| ||||| |||||
Sbjct: 45928767 cttttttttttgttttgtttt 45928747

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 181 ataaaaaaaaaattaattatt 200
 ||||| ||||| |||||
Sbjct: 712109 ataaaaaaaaaattaattatt 712128

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 390 ttttttttgttttgttttta 409
 ||||| ||||| |||||
Sbjct: 826353 ttttttttgttttgttttta 826372

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 176 aaataataaaaaaaaaaattaa 195
|||||||
Sbjct: 1304770 aaataataaaaaaaaaaattaa 1304789

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 162 agttttttttatccaaataa 181
|||||||
Sbjct: 1733903 agttttttttatccaaataa 1733922

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 408 aaaattgtttgtatttttattttt 431
||||||| |||||
Sbjct: 6343897 aaaattgtttgaatttttattttt 6343874

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 263 tttcttaattacattttttt 282
|||||||
Sbjct: 9055005 tttcttaattacattttttt 9055024

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 188 aaaattaattatttacccaa 207
|||||||

Sbjct: 11712246 aaaattaattattttacccaa 11712227

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 394 ttttgttttgtttttaaatt 413
|||||
Sbjct: 16882967 ttttgttttgtttttaaatt 16882948

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 384 ttgctttttttttgttttg 403
|||||
Sbjct: 21779487 ttgctttttttttgttttg 21779468

Score = 40.1 bits (20), Expect = 1.5
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 685 aattacaaacaatagaacaaaatattttaaatt 716
||||| || |
Sbjct: 22220632 aattacaaacaatataatattttaaatt 22220601

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 tttttttttgttttgtttt 407
|||||
Sbjct: 22379234 tttttttttgttttgtttt 22379215

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 605 acttaattgaaattaaaaaa 624
 |||||
Sbjct: 28138272 acttaattgaaattaaaaaa 28138291

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 162 agtttttttttatccaaataa 181
 |||||
Sbjct: 34321535 agtttttttttatccaaataa 34321516

Score = 40.1 bits (20), Expect = 1.5
Identities = 38/44 (86%)
Strand = Plus / Minus

Query: 1582 ctacaaatcattaaataatacaattacaatcaaataatttggg 1625
 ||||| ||||| ||||| |||||
Sbjct: 36038881 ctacaaataattaaataataaaaatagtaatcaaataaattggg 36038838

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 37770010 aaattaaaaaatatatattt 37769991

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 168 ttttatccaaataataaaaa 187
 |||||
Sbjct: 38088376 ttttatccaaataataaaaa 38088357

Score = 40.1 bits (20), Expect = 1.5

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1078 tgtgcattttttgaaatttg 1097
 |||||
Sbjct: 39049230 tgtgcattttttgaaatttg 39049249

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 43094439 ttttttttttgttttgtttt 43094458

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 719 aaataatacaacaaaaattttaaa 742
 |||||
Sbjct: 44006014 aaataatacaaacacattttaaa 44006037

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaac 636
 |||||
Sbjct: 45354144 ttaaaaaatatatatttaac 45354125

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633
 |||||
Sbjct: 45891802 aaattaaaaaatatatattt 45891783

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 415 tttgtatttttatttttttt 434
 |||||
Sbjct: 46572530 tttgtatttttatttttttt 46572549

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 705 aatatttaaatttgaaataa 724
 |||||
Sbjct: 47441404 aatatttaaatttgaaataa 47441385

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 48870912 ttttttttttgttttgtttt 48870931

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 391 tttttttgttttgttttta 409
 |||||
Sbjct: 61523 tttttttgttttgttttta 61541

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 186 aaaaaattaattatttacc 204
 |||||

Sbjct: 1074123 aaaaaattaattatttacc 1074141

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaataatatattt 633
|||||||
Sbjct: 1160747 aattaaataatatattt 1160765

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 192 ttaattatttaccataata 214
|||||||
Sbjct: 1761894 ttaattatttaccataata 1761872

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 tttttttttgtttgttt 406
|||||||
Sbjct: 1796248 tttttttttgtttgttt 1796266

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 1604 attacaatcaaataatttgggga 1626
|||||
Sbjct: 3345460 attacagtcaaataatttgggga 3345438

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 1522 aaatattttttattataaaacaaa 1544
 |||||
Sbjct: 3697695 aaatattttttattagaaaacaaa 3697717

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtattttttatttttt 432
 |||||
Sbjct: 4701128 gtttgtattttttatttttt 4701146

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 563 tttttatttttatttgattattat 585
 |||||
Sbjct: 4835837 tttttatttttattttattattat 4835859

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 409 aaattgtttgtattttttattttt 431
 |||||
Sbjct: 5544575 aaattatttgtattttttattttt 5544553

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtattttttatttttt 432
 |||||
Sbjct: 6397034 gtttgtattttttatttttt 6397016

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 6676089 aaatatattttattataaaa 6676071

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 325 ttcattttttttttcaaaa 343
 |||||
Sbjct: 7242056 ttcattttttttttcaaaa 7242074

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatttttattttattt 576
 |||||
Sbjct: 7568097 ttgtatttttattttattt 7568115

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 415 tttgtatttttattttttt 433
 |||||
Sbjct: 8583821 tttgtatttttattttttt 8583839

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 616 attaaaaaatatatattta 634
 |||||
Sbjct: 8804494 attaaaaaatatatattta 8804476

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 8831108 ttaaaaaatatatatttaa 8831090

Score = 38.2 bits (19), Expect = 6.1
Identities = 34/39 (87%)
Strand = Plus / Plus

Query: 1306 gacttctctccccctttggttgaacaatgcattacacct 1344
 ||||| ||| ||| ||| |||||
Sbjct: 9286163 gacttctcgcccttttttggttaacaatgcattacacct 9286201

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 181 ataaaaaaaaaattaattat 199
 |||||
Sbjct: 10278195 ataaaaaaaaaattaattat 10278177

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 292 gaaattggtttccttggaaccgatttc 318
 ||||| ||||| |||||
Sbjct: 11966982 gaaattggtttccttaggaaccaatttc 11967008

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaac 636
 ||||| |||||

Sbjct: 15420997 aaattaaaaattatatatttaac 15420975

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 659 atattttaaattacaaaata 677
|||||||
Sbjct: 16146475 atattttaaattacaaaata 16146457

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacathtagaaatt 297
|||||||
Sbjct: 16627479 ttttatacathtagaaatt 16627497

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 612 tgaaattaaaaaatatata 630
|||||||
Sbjct: 17646104 tgaaattaaaaaatatata 17646086

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 519 atattttatgttttatcattttt 541
|||||||
Sbjct: 17953910 atattttatgttttattattttt 17953932

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 181 ataaaaaaaaaattaattat 199
 |||||||
Sbjct: 18317763 ataaaaaaaaattaattat 18317745

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 121 gaaaaagaaaaaagaaatg 139
 |||||||
Sbjct: 18618574 gaaaaagaaaaaagaaatg 18618592

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||||
Sbjct: 21383800 aaatatattttattataaaa 21383818

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatatatt 633
 |||||||
Sbjct: 25355336 aattaaaaaatatatatatt 25355354

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 643 gttgacttgaactaaaatatttaaatt 669
 ||||| || |||||
Sbjct: 25784040 gttgaattaaactaaaatatttaaatt 25784014

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttattttttt 433
 |||||
Sbjct: 27620221 tttgtatttttattttttt 27620203

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1078 tgtgcattttttgaaattt 1096
 |||||
Sbjct: 33585206 tgtgcattttttgaaattt 33585188

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 33903803 tttttttttgttttgtttt 33903785

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 35160894 tttttttttgttttgtttt 35160912

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 37506981 tttttttttgttttgtttt 37506999

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 38127235 tttttttttgttttgtttt 38127217

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 40522125 aaatatattttattataaaa 40522107

Score = 38.2 bits (19), Expect = 6.1
Identities = 31/35 (88%)
Strand = Plus / Minus

Query: 330 tttttttttcaaaaccaagttaagaaatcggttcc 364
 ||||| | ||| |||| |||||
Sbjct: 41003812 tttttttttcaaaactatgttatgaaattggttcc 41003778

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 409 aaattgtttgtatttttattttt 431
 ||||| |||||
Sbjct: 41179313 aaattgttttatatttttattttt 41179335

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 601 aacaacttaattgaaattaaaaa 623
 |||| | ||||| ||||| |||||

Sbjct: 41429186 aacaaattaattgaaattaaaaa 41429208

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 421 tttttattttttttgttat 439
|||||||
Sbjct: 42363074 tttttattttttttgttat 42363056

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 407 taaaattgtttgtattttt 425
|||||||
Sbjct: 42607455 taaaattgtttgtattttt 42607473

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 121 gaaaaagaaaaaagaaatg 139
|||||||
Sbjct: 42650139 gaaaaagaaaaaagaaatg 42650157

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttt 432
|||||||
Sbjct: 43074939 gtttgtatttttatttttt 43074957

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 890 atttcttttcatttttggg 908
 |||||
Sbjct: 43465292 atttcttttcatttttggg 43465310

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 419 tatttttattttttttggt 437
 |||||
Sbjct: 44276934 tatttttattttttttggt 44276952

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatttttatttttt 432
 |||||
Sbjct: 45200769 gtttgtatttttatttttt 45200787

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatt 632
 |||||
Sbjct: 45514764 aaattaaaaaatatatatt 45514746

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 554 tcctttgtatttttattttattt 576
 ||||| |||||
Sbjct: 45544540 tccttttatttttattttattt 45544518

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 234 cacttttttccttagtta 252
|||||||
Sbjct: 46067907 cacttttttccttagtta 46067889

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatt 632
|||||||
Sbjct: 46537291 aaattaaaaaatatatatt 46537309

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 122 aaaaagaaaaagaaatgc 140
|||||||
Sbjct: 46919259 aaaaagaaaaagaaatgc 46919241

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 558 ttgtatttttattttattt 576
|||||||
Sbjct: 47093203 ttgtatttttattttattt 47093221

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 416 ttgtatttttatttttttt 434
|||||||
Sbjct: 47560138 ttgtatttttatttttttt 47560120

Query: 1125 ttgaccatgaaattttctcactagttgaatctctctctccagttaattgtctcctagacta
1184

Sbjct: 4197536 ctgatcgtgaaatctccaacgagtcgaacct--ctctcgagtttattatctcctagacca
4197479

Query: 1185 agaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgta
1244

||||| || |||| | | ||||||||| || ||||| ||||||||| |||||
Sbjct: 4197478 agaatcgtgtgtcacgtcggcgaactcaagaatagtgtgagcgtttgcctttctctgtg
4197419

Query: 1245 tgtctttcatagccttggttaataacttttgtataaaactt 1283

||||| | || ||||||| | ||||| |||||||||
Sbjct: 4197418 tgtctctgatggccttggttaagtactttcgtataaaactt 4197380

Score = 107 bits (54), Expect = 8e-21
Identities = 274/343 (79%), Gaps = 7/343 (2%)
Strand = Plus / Minus

Query: 1007 atacacaagatgtatgtagttcctataactcatgggtgagcatgcttataaaca---acaac
1063

||||||||| |||||||| | | ||||| ||||||||| || || |||||
Sbjct: 10117380 atacacaagatatatgtagtttctgtaatcatgatgagcatgcttacaagcagcaacaac
10117321

Query: 1064 atgagaacaaaacatgtgcattttttgaaatttgtcacag--tcacactacctttcatct
1121

||||||||| ||||||| || | ||||| ||||| |||||| | |||||||
Sbjct: 10117320 atgagaacaaggcatgtgcaacttctagaatttgccacagagtcacaccacttttcatct
10117261

Query: 1122 agcttgaccatgaaatttctcactagttgaatctctctctccagttaattgtctcctaga
1181

||| | || |||||||| | ||| | | ||||| ||| ||||||| | ||
Sbjct: 10117260 agcctcaccgtgaaatttc-cagtaggtcgaac-ctctcttaggtttattgtctcttgga
10117203

Query: 1182 ctaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttct
1241

| ||||||||| |||| | | ||||||||| || ||| ||||||||| |
Sbjct: 10117202 ccaagaattgtgtgtcacgtcgatcgaactcaagaacattaagagtgtttgcctttctaa
10117143

Query: 1242 gtatgtctttcatagccttggttaataacttttgtataaaacttcaccaaagtgaatcactc
1301

|| ||||||| || ||||||||| ||||| ||||||||| ||| ||| || |||
Sbjct: 10117142 gtgtgtctttgatgaccttggttagtactttcgtataaaacttagccagatgcaagcattg
10117083

```
Query: 1556      acaacaatgaacaacacacat--gacaactacaaatcattaataatacacattacaatca
1613            ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 41385022 acaacaatgaaaaaacacacatatgagtcctacaaatcatttaataataaaaataataatca
41385081
```


Query: 802 tgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgta
861
 ||||| ||||||| ||||| | || ||||| ||||||| |||||
Sbjct: 28133886 tgcgacaaatggaacatcttttgggtcactcaattctctcatatccattt-ggtgtgtg
28133828

Query: 862 tacgagaggagacatgacaacctttagaatttcttttcatttttgggt 909
 ||||| || ||||||| ||||||| ||||| |||||
Sbjct: 28133827 tacgagaggatactggacaacctttagaatttcttaacatttttgggt 28133780

Score = 56.0 bits (28), Expect = 3e-05
Identities = 34/36 (94%)
Strand = Plus / Minus

Query: 1028 cctatactcatggtgagcatgcttataaacaacaac 1063
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 28133663 cctatactcatggtgaacacgcttataaacaacaac 28133628

Score = 54.0 bits (27), Expect = 1e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatattttaaatt 669
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4198000 acaagttgaattgaactaaaatattttaaatt 4197970

Score = 54.0 bits (27), Expect = 1e-04
Identities = 27/27 (100%)
Strand = Plus / Minus

Query: 1435 ccatcccatgcgagagtccacttttct 1461
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 28108606 ccatcccatgcgagagtccacttttct 28108580

Score = 54.0 bits (27), Expect = 1e-04
Identities = 54/63 (85%)
Strand = Plus / Plus

Query: 1058 aacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttc
1117

|||||
Sbjct: 41381553 aacaacatgagaacaaggcatgtccaacttttgaaatttgtcataatcacaccacttttc
41381612

Query: 1118 atc 1120

|||
Sbjct: 41381613 atc 41381615

Score = 54.0 bits (27), Expect = 1e-04
Identities = 39/43 (90%)
Strand = Plus / Plus

Query: 1302 ttgcgacttctctccccctttggttgaacaatgcattacacct 1344

|||||
Sbjct: 41381793 ttgcggttctctccctcttttgttgaacaatgcattgcacct 41381835

Score = 50.1 bits (25), Expect = 0.002
Identities = 70/85 (82%)
Strand = Plus / Plus

Query: 703 aaaatattttaattttgaaataataacaacaaaatttttaaatacaaaacaatatggcataa
762

|||||
Sbjct: 41381173 aaaatattttaattttcaattaataacaacaaaattttacaaatacaaaataacatgacatac
41381232

Query: 763 aattaatgttgttggcctgagccta 787

| | | |
Sbjct: 41381233 attcaacgttggttagcttgagccta 41381257

Score = 46.1 bits (23), Expect = 0.025
Identities = 56/67 (83%)
Strand = Plus / Minus

Query: 801 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
860

|||||
Sbjct: 10117586 atgccacacacggaatatcgctttggttgacttggttctcggatatccatttcggtgtgg
10117527

Query: 861 atacgag 867
 |||||
Sbjct: 10117526 atacgag 10117520

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 408 aaaattgtttgatattttatatttttt 433
 |||||
Sbjct: 37630655 aaaattgtttgatattttatcttttt 37630630

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttta 409
 |||||
Sbjct: 37962437 ttttttttttgttttgttttta 37962458

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaact 637
 |||||
Sbjct: 3234332 ttaaaaaatatatatttaact 3234312

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 181 ataaaaaaaaaattaattat 201
 |||||
Sbjct: 35370338 ataaaaaaaaaattaattat 35370318

Score = 40.1 bits (20), Expect = 1.5
Identities = 32/36 (88%)

Strand = Plus / Plus

```
Query: 399      ttttggttttaaaattgtttgatatttttatttttttt 434
              |||| ||||||||||||||| | |||||||||||||||
Sbjct: 2095953 ttttcttttaaaattgtttattcttttatttttttt 2095988
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 475      acaatattatttttcatatg 494
              |||||||||||||||||
Sbjct: 2736096 acaatattatttttcatatg 2736077
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 421      tttttattttttttgttatt 440
              |||||||||||||||||
Sbjct: 4241870 tttttattttttttgttatt 4241889
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 1429      cagccaccatcccatgcgagagtc 1452
              ||||||||||||||| |||||||||
Sbjct: 10113811 cagccaccatcccaggcgagagtc 10113788
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 415      tttgtatttttatttttttt 434
              |||||||||||||||||
Sbjct: 18414704 tttgtatttttatttttttt 18414723
```

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 564 ttttattttatttgattattataa 587
 |||||
Sbjct: 24370077 ttttattttattttattattataa 24370054

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 392 ttttttgttttgttttaaaa 411
 |||||
Sbjct: 30210749 ttttttgttttgttttaaaa 30210768

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaact 637
 |||||
Sbjct: 30632930 aaattaaaaattatatatttaact 30632953

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 389 ttttttttgttttgttttaaaat 412
 |||||
Sbjct: 33271592 ttttttttgttttgttttaaaat 33271615

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 559 tgtatttttattttatttgattat 582
 |||||
Sbjct: 34535873 tgtaattttattttatttgattat 34535850

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 611 ttgaaattaaaaaatatata 630
 |||||
Sbjct: 34982373 ttgaaattaaaaaatatata 34982354

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgtttt 407
 |||||
Sbjct: 36209883 ttttttttttgttttgtttt 36209902

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Minus

Query: 412 ttgtttgtatttttattttttttgttattaa 442
 ||||| ||||| || |||||
Sbjct: 36842 ttgtttttatttttatttttatttttattaa 36812

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaaaattaa 195
 |||||
Sbjct: 639727 aataataaaaaaaaaattaa 639709

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 568 attttatttgattattata 586
|||||||
Sbjct: 678656 attttatttgattattata 678638

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
|||||||
Sbjct: 1249558 aaatatattttattataaaa 1249576

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
|||||||
Sbjct: 4115590 aaatatattttattataaaa 4115608

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 151 gtgaaaatgagagttttttttat 173
|||||||
Sbjct: 4927075 gtgaaaatgagactttttttttat 4927053

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatttaa 635
|||||||
Sbjct: 5648667 ttaaaaaatatatatttaa 5648685

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)

Strand = Plus / Minus

```
Query: 611      ttgaaattaaaaaatatatattt 633
          |||| |||||||||||||||||
Sbjct: 7535711 ttgatattaaaaaatatatattt 7535689
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

```
Query: 388      ttttttttttgttttgttttaaa 410
          |||||||||||||||| |||||
Sbjct: 8162927 ttttttttttgtttttttttaa 8162949
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

```
Query: 522      ttttatgttttatcatttttttaa 544
          |||| |||||||||||||||||
Sbjct: 8192030 ttttacgttttatcatttttttaa 8192008
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 611      ttgaaattaaaaaatatat 629
          |||||||||||||||||
Sbjct: 9039181 ttgaaattaaaaaatatat 9039163
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

```
Query: 388      ttttttttttgttttgttttaaa 410
          |||||||||||||||| |||||
Sbjct: 9288619 ttttttttttgtttttttttaa 9288597
```

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 11757098 tttttttttgttttgtttt 11757080

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 419 tttttttttttttttgttt 437
 |||||
Sbjct: 12641681 tttttttttttttttgttt 12641663

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 17637753 tttttttttgttttgtttt 17637735

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 887 agaatttcttttcattttt 905
 |||||
Sbjct: 24623652 agaatttcttttcattttt 24623670

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 178 ataataaaaaaaaaattaat 196
 |||||
Sbjct: 24776479 ataataaaaaaaaaattaat 24776497

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1818 atttcctcatcatcttgca 1836
 |||||
Sbjct: 27778134 atttcctcatcatcttgca 27778116

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 29406688 ttaaaaaatatatatttaa 29406670

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
 |||||
Sbjct: 31584815 gtttgtatttttatttttt 31584797

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 652 aactaaaatatttaaatta 670
 |||||
Sbjct: 32038963 aactaaaatatttaaatta 32038981

Score = 38.2 bits (19), Expect = 6.1
Identities = 37/43 (86%)
Strand = Plus / Plus

Query: 166 ttttttatccaaataataaaaaaaaaaattaattatttaccctaaa 208
 |||||
Sbjct: 33331029 ttttttatccaaataatacaaatagaataaaaatttaccctaaa 33331071

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 557 tttgtatttttattttatt 575
 |||||
Sbjct: 33683522 tttgtatttttattttatt 33683504

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 607 ttaattgaaattaaaaaat 625
 |||||
Sbjct: 33955989 ttaattgaaattaaaaaat 33956007

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaatta 198
 |||||
Sbjct: 35004076 aataaaaaaaaaattaatta 35004058

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatttttattataaaa 1540
 |||||
Sbjct: 36365707 aaatatttttattataaaa 36365689

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Minus

Query: 389 ttttttttttgttttgtttt 407
 |||||
Sbjct: 36959521 ttttttttttgttttgtttt 36959503

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 424 ttatttttttttgttattaa 442
 |||||
Sbjct: 37560689 ttatttttttttgttattaa 37560671

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 180 aataaaaaaaaaattaattattta 202
 |||||
Sbjct: 37562597 aataaaaaaaaaactaattattta 37562575

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 178 ataataaaaaaaaaattaat 196
 |||||
Sbjct: 37929853 ataataaaaaaaaaattaat 37929835

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 416 ttgtattttttattttttttt 434
 |||||
Sbjct: 38394066 ttgtattttttattttttttt 38394084

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatattttttattataaaa 1540
|||||
Sbjct: 39901763 aaatattttttattataaaa 39901781

>[gb|CM000845.1](#) Glycine max chromosome 12, whole genome shotgun sequence
Length = 40113140

Score = 103 bits (52), Expect = 1e-19
Identities = 199/248 (80%)
Strand = Plus / Plus

Query: 1632 tcttcaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaa
1691
|||||
Sbjct: 16604056 tcttcaaaactagattcaagggttcattgcttgagtgagggtattcctccaaaccctcaaaa
16604115

Query: 1692 ttcaaagagcttgcagaaactggtggtggttgatgcacatgtttatgtgggtgtgtctacg
1751
|| |||||
Sbjct: 16604116 ttgaaagagttttcaaaaattggtggtggatgtgcacatgtttatgtagggtggtctgcg
16604175

Query: 1752 gtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacata
1811
||| ||| ||| |||||
Sbjct: 16604176 gtggtaatatacaactccaggcatgtgagcttagagatgtctgcgaacataaaaaacata
16604235

Query: 1812 gtaattatttcctcatcatcttgcagcatacatgccctgtactgaaaacaatcaccaaca
1871
|| ||| |||||
Sbjct: 16604236 gtcacatcacatcctcatcattgtgcaacatgcatgccatgtacttgccacaatcaccaaca
16604295

Query: 1872 aatgatac 1879
|||||
Sbjct: 16604296 aatgatac 16604303

Score = 91.7 bits (46), Expect = 5e-16
Identities = 73/82 (89%)

Sbjct: 33116049 taactaacaagttgaattgaactaaaatatttaaattacaaaaaatatataaaattatca
33116108

```

Query:  693      acaatagaacaaaaatattttaa  714
          | | | | | | | | | | | | | | |
Sbjct: 33116109 ataataagacaaaaatattttaa 33116130

```

Score = 89.7 bits (45), Expect = 2e-15
Identities = 84/97 (86%)
Strand = Plus / Minus

```
Query: 703      aaaatattttaaatTTgaaataatacaacaaaaatttttaaaatacaaacaatatggcataa
762            |||
Sbjct: 9681635 aaaatattttaaatTTgaaacaatacaacaaaaatttttaaaatacaaagaatatgatataa
9681576
```

```
Query: 763      aattaatgttggtggcctgagcctacacaatgggggg 799
              |||||
Sbjct: 9681575 attcaacgttqttgqcttaagcttacatgatqqqqqq 9681539
```

Score = 85.7 bits (43), Expect = 3e-14
Identities = 127/155 (81%)
Strand = Plus / Minus

```
Query: 1208      aactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttgtttaat
1267            |||||
Sbjct: 9681104  aactcacgaacagtgtgagcgtttgcctttctctgtgcgtcttcaatgaccttgtttagt
9681045
```

```
Query: 1268      acttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctccccctttggttg
1327            |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Sbjct: 9681044  acttgcgatataaaacttggccagatgcaagcattgttgctgcttctctccctcttttgttg
9680985
```

Query: 1328 aacaatgcattacacctagtaggttgattttac 1362

Sbjct: 9680984 aacaatgcattacaccttagatatgttgattttac 9680950

Score = 75.8 bits (38), Expect = 3e-11
Identities = 101/120 (84%), Gaps = 4/120 (3%)
Strand = Plus / Minus

Query: 1005 gtatacacaagatgtatgtagttcctatactcatggtgagcatg-cttataa---acaac
1060

|||||
Sbjct: 9681309 gtatacacaagatgtatgtagttcgtgtacttatggatcatttcttacaagcaacaac
9681250

Query: 1061 aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
1120

|||||
Sbjct: 9681249 aacataagaacaaggcatgtacaatttcttgaatttgtcacagtcacaccacctttcatc
9681190

Score = 50.1 bits (25), Expect = 0.002
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 1431 gccaccatcccatgcgagagtccacttttcttgtggaatct 1471

|||||
Sbjct: 9680862 gccaccatcccatgcaagagtccatttttctcgcggaatct 9680822

Score = 48.1 bits (24), Expect = 0.006
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 164 ttttttttatccaaataataaaaa 187

|||||
Sbjct: 16610163 ttttttttatccaaataataaaaa 16610140

Score = 48.1 bits (24), Expect = 0.006
Identities = 31/32 (96%), Gaps = 1/32 (3%)
Strand = Plus / Plus

Query: 529 ttttatcatttttt-aagagttgaaatccttt 559

|||||

Sbjct: 25001717 ttttatcattttttgaagagttgaaatccttt 25001748

Score = 46.1 bits (23), Expect = 0.025
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 385 tgcttttttttttgttttgtttt 407
|||||
Sbjct: 5596995 tgcttttttttttgttttgtttt 5596973

Score = 46.1 bits (23), Expect = 0.025
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 639 acaagttgacttgaactaaaatatttaaatt 669
|||||
Sbjct: 9681652 acaagttgaattgcactaaaatatttaaatt 9681622

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 386 gcttttttttttgttttgtttt 407
|||||
Sbjct: 9266190 gcttttttttttgttttgtttt 9266211

Score = 44.1 bits (22), Expect = 0.098
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 561 tatttttattttatttgattattata 586
|||||
Sbjct: 36414011 tatttttattttatttgattattata 36413986

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 329 ttttttttttcaaaaccaagttaag 353
 ||||| ||||||||||||||||
Sbjct: 211950 tttttttattcaaaaccaagttaag 211974

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 327 cattttttttttcaaaaccaa 347
 ||||| ||||||||||||||||
Sbjct: 3105958 cattttttttttcaaaaccaa 3105938

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattta 634
 ||||| ||||||||||||||||
Sbjct: 5001765 aaattaaaaaatatatattta 5001785

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 408 aaaattgtttgtatttttatt 428
 ||||| ||||||||||||||||
Sbjct: 7411957 aaaattgtttgtatttttatt 7411977

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatattta 634
 ||||| ||||||||||||||||
Sbjct: 7708305 aaattaaaaaatatatattta 7708325

Score = 42.1 bits (21), Expect = 0.39

Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1520 acaaataatatttttattataaaa 1540
 |||||
Sbjct: 7934760 acaaataatatttttattataaaa 7934740

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttt 407
 |||||
Sbjct: 24030369 cttttttttttgttttgtttt 24030389

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttgtttt 407
 |||||
Sbjct: 34345697 cttttttttttgttttgtttt 34345717

Score = 42.1 bits (21), Expect = 0.39
Identities = 28/29 (96%), Gaps = 1/29 (3%)
Strand = Plus / Plus

Query: 608 taattgaaattaaaaaata-tatatatttaa 635
 |||||
Sbjct: 36308735 taattgaaattaaaaaatattatatatttaa 36308763

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 561 tattttttattttatttgatta 581
 |||||
Sbjct: 39610815 tattttttattttatttgatta 39610795

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 178 ataataaaaaaaaaaattaattattt 201
 |||||||||||||||||| |||||
Sbjct: 352589 ataataaaaaaaaaaattaagtattt 352566

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaaaaatatattt 633
 |||||||||||||||||| |||||
Sbjct: 1897482 aaattaaaaaaaaatatattt 1897501

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 183 aaaaaaaaaaattaattattta 202
 |||||||||||||||||| |||||
Sbjct: 5699317 aaaaaaaaaaattaattattta 5699298

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 603 caacttaattgaaattaaaa 622
 |||||||||||||||||| |||||
Sbjct: 7012501 caacttaattgaaattaaaa 7012520

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 414 gtttgatatttttattttttttggt 437
 |||| ||||||||||||||||| |||||

Sbjct: 8032346 gttttttattttttatttttttttgtt 8032369

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 658 aatatttaaattacaaaata 677
|||||
Sbjct: 9094536 aatatttaaattacaaaata 9094555

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 658 aatatttaaattacaaaata 677
|||||
Sbjct: 9095180 aatatttaaattacaaaata 9095199

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 329 ttttttttttcaaaaccaag 348
|||||
Sbjct: 10020620 ttttttttttcaaaaccaag 10020639

Score = 40.1 bits (20), Expect = 1.5
Identities = 44/52 (84%)
Strand = Plus / Plus

Query: 1086 ttttgaaatttgccacagtcacactacctttcatctagcttgaccatgaaat 1137
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16601201 ttttggaatttgccacagttacaccatgtttcatctagcctgaccataaaat 16601252

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 383 attgcttttttttttgtttt 402
 |||||
Sbjct: 18477680 attgcttttttttttgtttt 18477661

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 728 aacaaaaattttaaaataca 747
 |||||
Sbjct: 22379076 aacaaaaattttaaaataca 22379057

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 165 tttttttatccaaataataa 184
 |||||
Sbjct: 25884907 tttttttatccaaataataa 25884888

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 383 attgcttttttttttgtttt 402
 |||||
Sbjct: 26840202 attgcttttttttttgtttt 26840183

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 562 atttttattttatttgattattat 585
 |||||
Sbjct: 27239761 atttttattttatttgattattat 27239738

Score = 40.1 bits (20), Expect = 1.5

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 615 aattaaaaaatatatattta 634
 |||||||
Sbjct: 33929206 aattaaaaaatatatattta 33929225

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 612 tgaaattaaaaaatatatat 631
 |||||||
Sbjct: 35651397 tgaaattaaaaaatatatat 35651378

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 420 atttttattttttttgttat 439
 |||||||
Sbjct: 37994599 atttttattttttttgttat 37994618

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 164 ttttttttatccaaataataaaaa 187
 |||||||
Sbjct: 38057452 ttttttttatccaaaaataaaaa 38057475

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 410 aattgtttgtatttttatttttt 433
 |||||||
Sbjct: 39462472 aattgtttgtctttttatttttt 39462449

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatattttttattataaaa 1540
 |||||
Sbjct: 127181 aaatattttttattataaaa 127199

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 387 cttttttttttgttttggt 405
 |||||
Sbjct: 350477 cttttttttttgttttggt 350495

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 655 taaaatattttaaattacaaaata 677
 |||||
Sbjct: 687427 taaaatatataaattacaaaata 687405

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 616 attaaaaaatatatattta 634
 |||||
Sbjct: 775213 attaaaaaatatatattta 775231

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 119 tcgaaaaagaaaaagaaa 137
 |||||

Sbjct: 896384 tcgaaaaagaaaaagaaa 896402

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttttaaa 410
||||| ||||||||||||||||
Sbjct: 2070387 tttttgtttgtttgttttaaa 2070409

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 607 ttaattgaaattaaaaaatatat 629
||||| ||||||||||||||||
Sbjct: 2516470 ttaattgaaattaaaaaatatat 2516448

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 416 ttgtatttttatttttttt 434
||||| ||||||||||||
Sbjct: 2569351 ttgtatttttatttttttt 2569333

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
||||| ||||||||||||
Sbjct: 5171712 gtttgtatttttatttttt 5171694

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 719 aaataataacaacaaaaatttttaa 741
 |||||
Sbjct: 6918620 aaataataacaacagaaatttttaa 6918642

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 556 ctttgtatttttattttat 574
 |||||
Sbjct: 7046766 ctttgtatttttattttat 7046748

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatttttatttttt 432
 |||||
Sbjct: 7098401 gtttgtatttttatttttt 7098383

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttgttttgtttt 407
 |||||
Sbjct: 9478232 ttttttttgttttgtttt 9478214

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 11576447 aaatatattttattataaaa 11576429

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaattaatt 197
 |||||||
Sbjct: 12599808 taataaaaaaaaaattaatt 12599790

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 561 tatttttattttatttgattatt 583
 |||||||
Sbjct: 12640005 tatttttattttattttattatt 12639983

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 422 ttttattttttttgttatt 440
 |||||||
Sbjct: 13882231 ttttattttttttgttatt 13882213

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 177 aataataaaaaaaaaattaa 195
 |||||||
Sbjct: 15872783 aataataaaaaaaaaattaa 15872765

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaacaaa 1544
 |||||||
Sbjct: 17746826 aaatatattttatcataaaacaaa 17746848

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 578 attattataataacataatt 596
 |||||
Sbjct: 18510047 attattataataacataatt 18510065

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 384 ttgcttttttttttgtttt 402
 |||||
Sbjct: 21256720 ttgcttttttttttgtttt 21256738

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 279 ttttatacatttagaaatt 297
 |||||
Sbjct: 23096113 ttttatacatttagaaatt 23096095

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttttgttttgtttt 407
 |||||
Sbjct: 23811804 ttttttttttgttttgtttt 23811786

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 609 aattgaaattaaaaaatat 627
 |||||

Sbjct: 23977259 aattgaaattaaaaaatat 23977241

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacathtagaaatt 297
|||||
Sbjct: 30412548 ttttatacathtagaaatt 30412566

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 393 tttttgttttgttttaaaa 411
|||||
Sbjct: 32287831 tttttgttttgttttaaaa 32287849

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 320 aaatgttcatttttttttt 338
|||||
Sbjct: 32684629 aaatgttcatttttttttt 32684647

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Plus

Query: 569 ttttatttgattattataatacataattaaa 599
||||| ||| ||| |||
Sbjct: 33116003 ttttatttgattattataataataattaaa 33116033

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttt 407
 |||||
Sbjct: 34258530 tttttttttgttttgtttt 34258512

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 34290992 aaatatattttattataaaa 34291010

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgatatttttatttttt 432
 |||||
Sbjct: 34379013 gtttgatatttttatttttt 34379031

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1522 aaatatattttattataaaa 1540
 |||||
Sbjct: 34596441 aaatatattttattataaaa 34596459

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatatttaac 636
 ||||| |||||
Sbjct: 34667992 aaattaaaaattatatatttaac 34667970

Score = 38.2 bits (19), Expect = 6.1

Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 414 gtttgtatattttatattttt 432
|||||
Sbjct: 34739713 gtttgtatattttatattttt 34739731

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 414 gtttgtatattttatattttt 432
|||||
Sbjct: 34878472 gtttgtatattttatattttt 34878454

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 379 cttaattgctttttttttt 397
|||||
Sbjct: 35577474 cttaattgctttttttttt 35577456

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Minus

Query: 376 cttcttaattgcttttttttttgtttt 402
||||| |||||
Sbjct: 36303683 cttcttaattccttttttttttctttt 36303657

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 416 ttgtatattttatattttttt 434
|||||
Sbjct: 36903514 ttgtatattttatattttttt 36903532

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 617 ttaaaaaatatatatttaa 635
 |||||
Sbjct: 38206780 ttaaaaaatatatatttaa 38206798

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

Query: 404 ttttaaaattgtttgtatttttatttt 430
 |||||
Sbjct: 39256334 ttttaaaattgtttgaaattttatttt 39256360

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 181 ataaaaaaaaaattaattat 199
 |||||
Sbjct: 39560764 ataaaaaaaaaattaattat 39560782

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 179 taataaaaaaaaaaattaatt 197
 |||||
Sbjct: 39892580 taataaaaaaaaaaattaatt 39892562

>[gb|ACUP01000138.1](#) Glycine max chromosome 1 GLYMChr_01_Cont138, whole
genome shotgun
 sequence
 Length = 180812

Score = 85.7 bits (43), Expect = 3e-14
Identities = 138/169 (81%), Gaps = 3/169 (1%)
Strand = Plus / Minus

Query: 972 aatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttccta
1031

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 131403 aatcatttgtatacgttggagacactttccaatgtatacacatgatgtatgtaatttcta
131344

Query: 1032 tactcatggtgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttt
1088

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 131343 tactcatgatgagcatgcttacaagcagcaacaacatgagtacaaggcatgtgcaacttc
131284

Query: 1089 tgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaat 1137
|| | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 131283 tgtaatttgccacagtcacaccatctttcatccagcatgatcgtgaaat 131235

Score = 75.8 bits (38), Expect = 3e-11
Identities = 74/86 (86%)
Strand = Plus / Minus

Query: 705 aatattttaaatgtgaaataatacaacaaaaatttttaaatacaaaacaatatggcataaaa
764

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 131692 aatattttaaatgtgaattaatacaacacaattatatagatacaaaacaatatggcatacat
131633

Query: 765 ttaatgttggttggcctgagcctacac 790
| | | | | | | | | | | | | | | | | |
Sbjct: 131632 tcaacgttggttggcgtgagcctacac 131607

Score = 52.0 bits (26), Expect = 4e-04
Identities = 73/86 (84%), Gaps = 2/86 (2%)
Strand = Plus / Minus

Query: 1556 acaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaa
1615

|||| | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 126643 acaaaaatgaaaaacacagatgactcctacaaatcattaaatgataaaaatt-tactcaaa
126585

Query: 1616 taatttggggaggggg-tcttcaaaa 1640
||| | | | | | | | | | | | | | | | | | | |
Sbjct: 126584 taaattggggggggggttcttcaaaa 126559

Score = 42.1 bits (21), Expect = 0.39
 Identities = 72/89 (80%)
 Strand = Plus / Minus

Query: 1256 gccttgtttaataacttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctc
 1315
 |||||
 Sbjct: 131134 gccttgtttagtacttccatataaaacttggccaaatgcaagcattggtgcggcctctctt
 131075

Query: 1316 cccctttggttgaacaatgcattacacct 1344
 || ||||
 Sbjct: 131074 cctcttttgttgaatagtgcattacacct 131046

Score = 38.2 bits (19), Expect = 6.1
 Identities = 25/27 (92%)
 Strand = Plus / Minus

Query: 841 ggatatccattttggtgtgtatacgag 867
 |||||
 Sbjct: 131534 ggatatccatttcggtgtggatacgag 131508

>[gb|GG730489.1](#) Glycine max unplaced genomic scaffold GLYMA scaffold_313,
 whole genome
 shotgun sequence
 Length = 14410

Score = 83.8 bits (42), Expect = 1e-13
 Identities = 259/330 (78%), Gaps = 6/330 (1%)
 Strand = Plus / Minus

Query: 1556 acaacaatgaacaacacacat--gacaactacaaatcattaataataacaattacaatca 1613
 |||||
 Sbjct: 3977 acaacaatgaaaaacacacatatgagtactacaaatcattcaataacaaaatagcaatca 3918

Query: 1614 aataatttggggaggg----ggtcttcaaaacttgattcaagggttcattgtatcatcgag 1669
 |||||
 Sbjct: 3917 aataaattgtgggggtaggggttcttcaaaactcgattcaagggttcattgcttgagttag 3858

Query: 1670 gtattcacccaaaccctccaaattcaaagagcttgcagaaactgggtgggtgtgcata 1729
 |||||
 Sbjct: 3857 gtattcatccaaatcctcaaaattgaaagagcttttagaaattgggtggatgatgcaca 3798

Query: 1790 tttcccaaatatagaaaacatagtaattatttcctcatcatcttgagcatacatgcct 1849
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 3737 gtctacaaacataaaaaacatattcatcacatcctcatcatcgtgcaacatgcatgccgt 3678

Score = 69.9 bits (35), Expect = 2e-09
Identities = 53/59 (89%)
Strand = Plus / Minus

Score = 48.1 bits (24), Expect = 0.006
Identities = 96/118 (81%), Gaps = 4/118 (3%)
Strand = Plus / Minus

Query: 1063 catgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc 1120
 |||||
 Sbjct: 6800 catgagaacaaggcatgtgcaacttctggaatttgccacagttacaccacatttcac 6743

Score = 50.1 bits (25), Expect = 0.002
Identities = 46/53 (86%)
Strand = Plus / Plus

Query: 480 attatattttcatatggttggt 499
 |||||
Sbjct: 962101 attatattttcatatggttggt 962120

Score = 38.2 bits (19), Expect = 6.1
Identities = 28/31 (90%)
Strand = Plus / Plus

Query: 329 ttttttttttcaaaaccaagttaagaaatcg 359
 |||||
Sbjct: 961967 ttttttttttaaaaaaccaattaagaaatcg 961997

>[gb|GG730583.1](#)| Glycine max unplaced genomic scaffold GLYMA scaffold_589,
whole genome

 shotgun sequence
 Length = 9427

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
 |||||
Sbjct: 4729 aaattaaaaaatatatatttaa 4750

>[gb|GG730421.1](#)| Glycine max unplaced genomic scaffold GLYMA scaffold_121,
whole genome

 shotgun sequence
 Length = 44738

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
 |||||
Sbjct: 37562 aaattaaaaaatatatatttaa 37583

>[gb|GG730408.1](#)| Glycine max unplaced genomic scaffold GLYMA scaffold_96, whole
genome

 shotgun sequence
 Length = 84751

Score = 44.1 bits (22), Expect = 0.098
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 614 aaattaaaaaatatatatttaa 635
|||||||
Sbjct: 25763 aaattaaaaaatatatatttaa 25784

>[gb|ACUP01000210.1](#) Glycine max chromosome 1 GLYMChr_01_Cont210, whole genome shotgun

sequence
Length = 458644

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 176 aaataataaaaaaaaaattaat 196
|||||||
Sbjct: 453330 aaataataaaaaaaaaattaat 453310

>[gb|ACUP01000200.1](#) Glycine max chromosome 1 GLYMChr_01_Cont200, whole genome shotgun

sequence
Length = 323229

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 578 attattataatacataattaa 598
|||||||
Sbjct: 53614 attattataatacataattaa 53634

>[gb|ACUP01000183.1](#) Glycine max chromosome 1 GLYMChr_01_Cont183, whole genome shotgun

sequence
Length = 333815

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 166 ttttttatccaaataataaaaaaaaa 190
||||||| |||||
Sbjct: 279411 ttttttatccaaataataaaaaaaaa 279387

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 384 ttgctttttttttttgtttt 402
 |||||
Sbjct: 231159 ttgctttttttttttgtttt 231141

>[gb|ACUP01000114.1](#) Glycine max chromosome 1 GLYMChr_01_Cont114, whole
genome shotgun
 sequence
 Length = 173159

Score = 42.1 bits (21), Expect = 0.39
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 386 gctttttttttttgttttgttttaa 410
 |||| |
Sbjct: 130798 gcttctttttttgttttgttttaa 130822

>[gb|ACUP01000101.1](#) Glycine max chromosome 1 GLYMChr_01_Cont101, whole
genome shotgun
 sequence
 Length = 224646

Score = 42.1 bits (21), Expect = 0.39
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 388 tttttttttttgttttgtttta 408
 |||||
Sbjct: 3325 tttttttttttgttttgtttta 3305

>[gb|ACUP01000218.1](#) Glycine max chromosome 1 GLYMChr_01_Cont218, whole
genome shotgun
 sequence
 Length = 313031

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 614 aaattaaaaaatatatattt 633

|||||
Sbjct: 197715 aaattaaaaaatatatattt 197696

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 392 ttttttgttttgttttaaaa 411
|||||
Sbjct: 256043 ttttttgttttgttttaaaa 256062

>[gb|ACUP01000130.1](#) Glycine max chromosome 1 GLYMChr_01_Cont130, whole
genome shotgun

sequence
Length = 188912

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 415 tttgtatttttatttttttt 434
|||||
Sbjct: 96288 tttgtatttttatttttttt 96269

>[gb|ACUP01000080.1](#) Glycine max chromosome 1 GLYMChr_01_Cont80, whole genome
shotgun

sequence
Length = 96019

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgttttaaaa 411
|||| |||||
Sbjct: 13881 ttttgtttttgttttgttttaaaa 13858

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 279 ttttatacatttagaaatt 297
|||||

Sbjct: 25782 ttttatacatttagaaatt 25800

>[gb|ACUP01000079.1](#) Glycine max chromosome 1 GLYMChr_01_Cont79, whole genome
shotgun

sequence
Length = 391203

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 388 ttttttttttgttttgtttt 407
 |||||||
Sbjct: 104833 ttttttttttgttttgtttt 104814

>[gb|GG731343.1](#) Glycine max unplaced genomic scaffold GLYMA scaffold_2066,
whole

genome shotgun sequence
Length = 1701

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 393 tttttgttttgttttaaaat 412
 |||||||
Sbjct: 1089 tttttgttttgttttaaaat 1070

>[gb|GG730983.1](#) Glycine max unplaced genomic scaffold GLYMA scaffold_1423,
whole

genome shotgun sequence
Length = 4066

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 384 ttgcttttttttttgttttgtttt 407
 |||||||
Sbjct: 56 ttgcttttttttttgtttggtttt 79

>[gb|GG730403.1](#) Glycine max unplaced genomic scaffold GLYMA scaffold_91, whole
genome

shotgun sequence
Length = 63120

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 389 tttttttttgttttgtttta 408
 |||||
Sbjct: 25797 tttttttttgttttgtttta 25778

>[gb|GG730366.1](#)| Glycine max unplaced genomic scaffold GLYMA scaffold_42, whole genome

 shotgun sequence
Length = 306045

Score = 40.1 bits (20), Expect = 1.5
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 388 tttttttttgttttgtttt 407
 |||||
Sbjct: 146366 tttttttttgttttgtttt 146385

>[gb|GG730348.1](#)| Glycine max unplaced genomic scaffold GLYMA scaffold_21, whole genome

 shotgun sequence
Length = 1127293

Score = 40.1 bits (20), Expect = 1.5
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 418 gtattttttattttttttgttatta 441
 |||||
Sbjct: 436412 gtattttttattttttttattatta 436389

>[gb|ACUP01000153.1](#)| Glycine max chromosome 1 GLYMAchr_01_Cont153, whole genome shotgun

 sequence
Length = 260231

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 325 ttcatttttttttttcaaaa 343
 |||||
Sbjct: 152060 ttcatttttttttttcaaaa 152078

>[gb|ACUP01000144.1](#) Glycine max chromosome 1 GLYMChr_01_Cont144, whole genome shotgun

sequence
Length = 666372

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 388 ttttttttttgttttgttt 406
 |||||
Sbjct: 482665 ttttttttttgttttgttt 482683

>[gb|ACUP01000124.1](#) Glycine max chromosome 1 GLYMChr_01_Cont124, whole genome shotgun

sequence
Length = 93959

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 389 ttttttttttgttttgttt 407
 |||||
Sbjct: 48311 ttttttttttgttttgttt 48293

>[gb|ACUP01000123.1](#) Glycine max chromosome 1 GLYMChr_01_Cont123, whole genome shotgun

sequence
Length = 178633

Score = 38.2 bits (19), Expect = 6.1
Identities = 22/23 (95%)
Strand = Plus / Minus

Query: 165 tttttttatccaaataataaaaa 187
 |||||
Sbjct: 170281 tttttttatcgaaataataaaaa 170259

>[gb|ACUP01000122.1](#) Glycine max chromosome 1 GLYMChr_01_Cont122, whole genome shotgun

sequence
Length = 98518

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)

Strand = Plus / Minus

```
Query: 389      tttttttttgttttgtttt 407
              |||||
Sbjct: 73536 tttttttttgttttgtttt 73518
```

>[gb|ACUP01000111.1](#)| Glycine max chromosome 1 GLYMChr_01_Cont111, whole genome shotgun

sequence
Length = 105220

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 416      ttgtatttttatttttttt 434
              |||||
Sbjct: 101299 ttgtatttttatttttttt 101317
```

>[gb|ACUP01000103.1](#)| Glycine max chromosome 1 GLYMChr_01_Cont103, whole genome shotgun

sequence
Length = 39184

Score = 38.2 bits (19), Expect = 6.1
Identities = 25/27 (92%)
Strand = Plus / Plus

```
Query: 408      aaaattgtttgtatttttatttttttt 434
              |||||
Sbjct: 9558      aaaattgttttgtttttatttttttt 9584
```

>[gb|ACUP01000102.1](#)| Glycine max chromosome 1 GLYMChr_01_Cont102, whole genome shotgun

sequence
Length = 116335

Score = 38.2 bits (19), Expect = 6.1
Identities = 19/19 (100%)
Strand = Plus / Plus

```
Query: 325      ttcattttttttttcaaaa 343
              |||||
Sbjct: 4099      ttcattttttttttcaaaa 4117
```


Database: ../blastlibs/G_max_Genome
Posted date: Mar 12, 2010 10:36 AM
Number of letters in database: 996,379,823
Number of sequences in database: 1418

Lambda	K	H
1.37	0.711	1.31

Gapped

Lambda	K	H
1.37	0.711	1.31

Matrix: blastn matrix:1 -3
Gap Penalties: Existence: 5, Extension: 2
Number of Hits to DB: 5,169,485
Number of Sequences: 1418
Number of extensions: 5169485
Number of successful extensions: 3373
Number of sequences better than 10.0: 71
Number of HSP's better than 10.0 without gapping: 249
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 0
Number of HSP's gapped (non-prelim): 3102
length of query: 1885
length of database: 996,379,823
effective HSP length: 21
effective length of query: 1864
effective length of database: 996,350,045
effective search space: 1857196483880
effective search space used: 1857196483880
T: 0
A: 0
X1: 11 (21.8 bits)
X2: 15 (29.7 bits)
S1: 12 (24.3 bits)
S2: 19 (38.2 bits)

Appendix of Report 102117

BLASTn Search Output of Original locus sequence in Maverick

BLASTN 2.2.22 [Sep-27-2009]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Database: ../blastlibs/G_max_Genome
1418 sequences; 996,379,823 total letters

Query= Mav
(7762 letters)

Sequences producing significant alignments:			Score (bits)	E Value
gb CM000839.1 	Glycine max chromosome 6, whole genome shotg...	9494	0.0	
gb ACUP01000101.1 	Glycine max chromosome 1 GLYMChr_01_Con...	1608	0.0	
gb CM000846.1 	Glycine max chromosome 13, whole genome shot...	1608	0.0	
gb CM000845.1 	Glycine max chromosome 12, whole genome shot...	1608	0.0	
gb CM000844.1 	Glycine max chromosome 11, whole genome shot...	1608	0.0	
gb CM000834.1 	Glycine max chromosome 1, whole genome shotg...	1608	0.0	
gb CM000853.1 	Glycine max chromosome 20, whole genome shot...	1600	0.0	
gb CM000852.1 	Glycine max chromosome 19, whole genome shot...	1600	0.0	
gb CM000850.1 	Glycine max chromosome 17, whole genome shot...	1600	0.0	
gb CM000838.1 	Glycine max chromosome 5, whole genome shotg...	1600	0.0	
gb CM000837.1 	Glycine max chromosome 4, whole genome shotg...	1600	0.0	
gb CM000835.1 	Glycine max chromosome 2, whole genome shotg...	1600	0.0	
gb CM000842.1 	Glycine max chromosome 9, whole genome shotg...	1596	0.0	
gb ACUP01000106.1 	Glycine max chromosome 1 GLYMChr_01_Con...	1592	0.0	
gb ACUP01000005.1 	Glycine max chromosome 1 GLYMChr_01_Con...	1592	0.0	
gb CM000851.1 	Glycine max chromosome 18, whole genome shot...	1592	0.0	
gb CM000849.1 	Glycine max chromosome 16, whole genome shot...	1592	0.0	
gb CM000848.1 	Glycine max chromosome 15, whole genome shot...	1592	0.0	
gb CM000847.1 	Glycine max chromosome 14, whole genome shot...	1592	0.0	
gb CM000843.1 	Glycine max chromosome 10, whole genome shot...	1592	0.0	
gb CM000841.1 	Glycine max chromosome 8, whole genome shotg...	1592	0.0	
gb CM000840.1 	Glycine max chromosome 7, whole genome shotg...	1592	0.0	
gb CM000836.1 	Glycine max chromosome 3, whole genome shotg...	1592	0.0	
gb ACUP01000091.1 	Glycine max chromosome 1 GLYMChr_01_Con...	1584	0.0	
gb ACUP01000117.1 	Glycine max chromosome 1 GLYMChr_01_Con...	1568	0.0	
gb GG730348.1 	Glycine max unplaced genomic scaffold GLYMA...	1568	0.0	
gb ACUP01000088.1 	Glycine max chromosome 1 GLYMChr_01_Con...	1552	0.0	
gb GG730426.1 	Glycine max unplaced genomic scaffold GLYMA...	1552	0.0	
gb GG731187.1 	Glycine max unplaced genomic scaffold GLYMA...	1534	0.0	
gb GG730352.1 	Glycine max unplaced genomic scaffold GLYMA...	1521	0.0	
gb GG730351.1 	Glycine max unplaced genomic scaffold GLYMA...	1521	0.0	

gb	ACUP01000087.1	Glycine max chromosome 1	GLYMChr_01_Con...	1507	0.0
gb	ACUP01000003.1	Glycine max chromosome 1	GLYMChr_01_Con...	1497	0.0
gb	ACUP01000216.1	Glycine max chromosome 1	GLYMChr_01_Con...	1489	0.0
gb	GG730433.1	Glycine max unplaced genomic scaffold	GLYMAS...	1350	0.0
gb	ACUP01000218.1	Glycine max chromosome 1	GLYMChr_01_Con...	1180	0.0
gb	GG730381.1	Glycine max unplaced genomic scaffold	GLYMAS...	1082	0.0
gb	ACUP01000038.1	Glycine max chromosome 1	GLYMChr_01_Con...	977	0.0
gb	GG730421.1	Glycine max unplaced genomic scaffold	GLYMAS...	771	0.0
gb	ACUP01000008.1	Glycine max chromosome 1	GLYMChr_01_Con...	644	0.0
gb	ACUP01000212.1	Glycine max chromosome 1	GLYMChr_01_Con...	593	e-166
gb	GG731155.1	Glycine max unplaced genomic scaffold	GLYMAS...	591	e-166
gb	ACUP01000029.1	Glycine max chromosome 1	GLYMChr_01_Con...	577	e-161
gb	ACUP01000121.1	Glycine max chromosome 1	GLYMChr_01_Con...	547	e-152
gb	GG730392.1	Glycine max unplaced genomic scaffold	GLYMAS...	511	e-142
gb	ACUP01000011.1	Glycine max chromosome 1	GLYMChr_01_Con...	381	e-102
gb	ACUP01000042.1	Glycine max chromosome 1	GLYMChr_01_Con...	190	3e-45
gb	ACUP01000066.1	Glycine max chromosome 1	GLYMChr_01_Con...	174	2e-40
gb	ACUP01000024.1	Glycine max chromosome 1	GLYMChr_01_Con...	172	7e-40
gb	GG730530.1	Glycine max unplaced genomic scaffold	GLYMAS...	170	3e-39
gb	ACUP01000220.1	Glycine max chromosome 1	GLYMChr_01_Con...	169	1e-38
gb	ACUP01000032.1	Glycine max chromosome 1	GLYMChr_01_Con...	165	2e-37
gb	ACUP01000083.1	Glycine max chromosome 1	GLYMChr_01_Con...	161	3e-36
gb	GG730463.1	Glycine max unplaced genomic scaffold	GLYMAS...	159	1e-35
gb	GG731022.1	Glycine max unplaced genomic scaffold	GLYMAS...	157	4e-35
gb	ACUP01000079.1	Glycine max chromosome 1	GLYMChr_01_Con...	153	6e-34
gb	GG730402.1	Glycine max unplaced genomic scaffold	GLYMAS...	153	6e-34
gb	ACUP01000007.1	Glycine max chromosome 1	GLYMChr_01_Con...	147	4e-32
gb	ACUP01000021.1	Glycine max chromosome 1	GLYMChr_01_Con...	137	4e-29
gb	ACUP01000063.1	Glycine max chromosome 1	GLYMChr_01_Con...	133	6e-28
gb	GG730528.1	Glycine max unplaced genomic scaffold	GLYMAS...	131	2e-27
gb	ACUP01000059.1	Glycine max chromosome 1	GLYMChr_01_Con...	121	2e-24
gb	ACUP01000039.1	Glycine max chromosome 1	GLYMChr_01_Con...	111	2e-21
gb	GG730435.1	Glycine max unplaced genomic scaffold	GLYMAS...	111	2e-21
gb	ACUP01000058.1	Glycine max chromosome 1	GLYMChr_01_Con...	109	8e-21
gb	GG730444.1	Glycine max unplaced genomic scaffold	GLYMAS...	109	8e-21
gb	ACUP01000209.1	Glycine max chromosome 1	GLYMChr_01_Con...	105	1e-19
gb	ACUP01000102.1	Glycine max chromosome 1	GLYMChr_01_Con...	105	1e-19
gb	ACUP01000094.1	Glycine max chromosome 1	GLYMChr_01_Con...	101	2e-18
gb	GG730365.1	Glycine max unplaced genomic scaffold	GLYMAS...	100	8e-18
gb	ACUP01000044.1	Glycine max chromosome 1	GLYMChr_01_Con...	98	3e-17
gb	ACUP01000114.1	Glycine max chromosome 1	GLYMChr_01_Con...	96	1e-16
gb	ACUP01000138.1	Glycine max chromosome 1	GLYMChr_01_Con...	86	1e-13
gb	ACUP01000075.1	Glycine max chromosome 1	GLYMChr_01_Con...	84	5e-13
gb	GG730489.1	Glycine max unplaced genomic scaffold	GLYMAS...	84	5e-13
gb	ACUP01000231.1	Glycine max chromosome 1	GLYMChr_01_Con...	78	3e-11
gb	GG730549.1	Glycine max unplaced genomic scaffold	GLYMAS...	76	1e-10
gb	ACUP01000019.1	Glycine max chromosome 1	GLYMChr_01_Con...	72	2e-09
gb	ACUP01000090.1	Glycine max chromosome 1	GLYMChr_01_Con...	66	1e-07
gb	ACUP01000009.1	Glycine max chromosome 1	GLYMChr_01_Con...	64	4e-07
gb	ACUP01000015.1	Glycine max chromosome 1	GLYMChr_01_Con...	62	2e-06
gb	GG731406.1	Glycine max unplaced genomic scaffold	GLYMAS...	58	3e-05
gb	GG730364.1	Glycine max unplaced genomic scaffold	GLYMAS...	56	1e-04
gb	ACUP01000161.1	Glycine max chromosome 1	GLYMChr_01_Con...	52	0.002
gb	GG730495.1	Glycine max unplaced genomic scaffold	GLYMAS...	52	0.002
gb	ACUP01000144.1	Glycine max chromosome 1	GLYMChr_01_Con...	50	0.007
gb	ACUP01000111.1	Glycine max chromosome 1	GLYMChr_01_Con...	50	0.007
gb	ACUP01000108.1	Glycine max chromosome 1	GLYMChr_01_Con...	50	0.007

gb ACUP01000051.1 	Glycine max chromosome 1 GLYMChr_01_Con...	50	0.007
gb ACUP01000046.1 	Glycine max chromosome 1 GLYMChr_01_Con...	50	0.007
gb GG730349.1 	Glycine max unplaced genomic scaffold GLYMAS...	50	0.007
gb GG731456.1 	Glycine max unplaced genomic scaffold GLYMAS...	48	0.026
gb ACUP01000225.1 	Glycine max chromosome 1 GLYMChr_01_Con...	46	0.10
gb ACUP01000097.1 	Glycine max chromosome 1 GLYMChr_01_Con...	46	0.10
gb GG730590.1 	Glycine max unplaced genomic scaffold GLYMAS...	46	0.10
gb ACUP01000162.1 	Glycine max chromosome 1 GLYMChr_01_Con...	44	0.41
gb ACUP01000130.1 	Glycine max chromosome 1 GLYMChr_01_Con...	44	0.41
gb ACUP01000074.1 	Glycine max chromosome 1 GLYMChr_01_Con...	44	0.41
gb ACUP01000062.1 	Glycine max chromosome 1 GLYMChr_01_Con...	44	0.41
gb ACUP01000010.1 	Glycine max chromosome 1 GLYMChr_01_Con...	44	0.41

>[gb|CM000839.1|](#) Glycine max chromosome 6, whole genome shotgun sequence
Length = 50722821

Score = 9494 bits (4789), Expect = 0.0
Identities = 4900/4932 (99%), Gaps = 5/4932 (0%)
Strand = Plus / Minus

Query: 1 cccgtgaagaagatcaagtgtgtgaaccaaagtgaaaataatgtttagaagccaacacag
60

|||||
Sbjct: 18558097 cccgtgaagaagatcaagtgtgtgaaccaaagtgaaaataatgtttagaagccaacacag
18558038

Query: 61 tggacaattttgatttctgggttaatgggtgtattaaaaatatcagaaaactttcaaatat
120

|||||
Sbjct: 18558037 tggacaattctgatttctgggttaatgggtgtattaaaaatatcagaaaactttcaaatat
18557978

Query: 121 ctcgagcaggcagttgggttgccctaatccatcacttgatctcaaagattcttggtgtcaa
180

|||||
Sbjct: 18557977 ctcgagcaggcagttgggttgccctaatccatcacttgatctcaaagattcttggtgtcaa
18557918

Query: 181 gcttcgatgagtagcgaaacctaccgtgtgggctctaagctttagggttgccattgacgat
240

|||||
Sbjct: 18557917 gcttcgatgagtagcgaaacctaccgtgtgggctctaagctttagggttgccattgacgat
18557858

Query: 241 cttgacacgacatatgacctatgatagcaattcaaacatgggttcatatcagctgagttgc
300

|||||
Sbjct: 18557857 cttgacacgacatatgacctatgatagcaattcaaacatgggttcatatcagctgagttgc
18557798

Query: 301 agacttagctgctagcatttcacgttgtgaatgcaagaggaaaaatacatagaaaaagag
360

|||||
Sbjct: 18557797 agacttagctgctagcatttcacgttgtgaatgcaagaggaaaaatacatagaaaaagag
18557738

Query: 361 ggaacaaaattgttaaccctccatattgtacagggttttagcctcaattttaccattgatt
420

|||||
Sbjct: 18557737 ggaacaaaattgttaaccctccatattgtacagggttttagcctcaattttaccattgatt
18557678

Query: 421 gatttattattgaaaagtaatcacttatcagaaccagagtttgtaattcagcttgatcg
480

|||||
Sbjct: 18557677 gatttattattgaaaagtaatcacttatcagaaccagagtttgtaattcagcttgatca
18557618

Query: 481 taccatctaatatcttagtcaaatttggtgtataataagtatttaaattgtgagtcctttt
540

|||||
Sbjct: 18557617 taccatctaatatcttagtcaaatttggtgtataataagtatttaaattgtgagtcctttt
18557558

Query: 541 atttaattagtttaataaattggaatacaattggcaaatgggcacttcaactataattag
600

|||||
Sbjct: 18557557 atttaattagtttaataaattggaatacaattggcaaatgggcacttcaactataattag
18557498

Query: 601 tgaattgatttagttgactggttatgaagtatcttacttaagttagtaatagtagagtgat
660

|||||
Sbjct: 18557497 tgaattgatttagttgactggttatgaagtatcttacttaagttagtaatagtagagtgat
18557438

Query: 661 gtttgatgaattaaacttaagattggttgaagttattgatctcactggatccatagtttg
720

|||||
Sbjct: 18557437 gtttgatgaattaaacttaagattggttgaagttattgatctcactggatccatagtttg
18557378

Query: 721 gtctgtgggattgcatctgaaacggatcatatgggttttggttgactgaattgtggca
780

|||||
Sbjct: 18557377 gtctgtgggattgcatctgaaacggatcatatgggttttggttagtgactgaattgtggca
18557318

Query: 781 atgtaacacctggactttttcacaaactattgtataaatccagtatatctcacgtgaatct
840

|||||
Sbjct: 18557317 atgtaacacctggactttttcacaaactattgtataaatccagtatatctcacgtgaatct
18557258

Query: 841 gaaattagtagcatgcttaacatataagtatcgatttatctaatacagtttccatatttat
900

|||||
Sbjct: 18557257 gaaattagtagcatgcttaacatataagtatcgatttatctaatacagtttccatatttat
18557198

Query: 901 gaaaactgcactggttgaaaattgtgcaagcttaacatacaagtaatgtaatccacagtac
960

|||||
Sbjct: 18557197 gaaaactgcactggttgaaaattgtgcaagcttaacatacaagtaatgtaatccacagtac
18557138

Query: 961 gaaaaatgtgcagggttcttatttgtgctccataattgtttcttgattccgatcaaagcaa
1020

|||||
Sbjct: 18557137 gaaaaatgtgcagggttcttatttgtgctccataattgtttcatgattccgatcaaagcaa
18557078

Query: 1021 gagcatccagtctcaaaattttgtcttctcaattcactcattcatcaaaatcagcagttt
1080

|||||
Sbjct: 18557077 gagcatccagtctcaa--ttttgtcttctcaattcactcattcatcaaaatcagcagttt
18557020

Query: 1081 tatgcatcaacaagcatggaatggtgaaccacccatgattaagccccatatcgttgtggt
1140

|||||
Sbjct: 18557019 tatgcatcaacaagcatggaatggtgaaccacccatgattaagccccatatcgttgtggt
18556960

Query: 1141 gagataactatcacctgaagttgtcttataaaaaacacatctgaatacttttataatcat
1200

|||||
Sbjct: 18556959 gagataactatcacctgaagttgtcttataaaaaacacatctgaatacttttataatcat
18556900

Query: 1201 acctttctcggccttttggctaagatcaagtgtagtatctggttcttatcagtttaatatc
1260

|||||
Sbjct: 18556899 acctttctcggccttttggctaagatcaagtgtagtatctggttcttatcagtttaatatc
18556840

Query: 1261 tgatatgtgggtcattggcccatgatattaaattttttttgaaggggtggggcctga
1320

|||||
Sbjct: 18556839 tgatatgtgggtcattggcccatgatattaaattttttttgaaggggtggggcctga
18556780

Query: 1321 catagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgcatggg
1380

|||||
Sbjct: 18556779 catagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgcatggg
18556720

Query: 1381 cctggcgcaccctacgattcagtgtatatttatgtgtgataatgtcatgggtttttattg
1440

|||||
Sbjct: 18556719 cctggcgcaccctacgattcagtgtatatttatgtgtgataatgtcatgggtttttattg
18556660

Query: 1441 ttcttggtggttctctcttaggaacttacatgtaaacggtaagggtcatcatggatgtaga
1500

|||||
Sbjct: 18556659 ttcttggtggttctctcttaggaacttacatgtaaacggtaagggtcatcatggatgtaga
18556600

Query: 1501 aagttatcactgtaaatcttacaatttttaaaggactcttttgtctatctactaaaatta
1560

|||||
Sbjct: 18556599 aagttatcactgtaaatcttacaatttttaaaggactcttttgtctatctactaaaatta
18556540

Query: 1561 atatgttaaggcaagaaatgggtacttcaacacatcttaaagtttacgagataggaagaaa
1620

|||||
Sbjct: 18556539 atatgttaaggcaagaaatgggtacttcaacacatcttaaagtttacgagataggaagaaa
18556480

Query: 1621 agtctctataccatgaascacaaacgccttatcccactaggtggggtcggctacatggat
1680

|||||
Sbjct: 18556479 agtctctataccatacaacaacaacgccttatcccactaggtggggtcggctacatggat
18556420

Query: 1681 caacttccgccataatgttctatcaagtaccatacttctatccaaaccattaatttcgag
1740

|||||
Sbjct: 18556419 caacttccgctcataatgttctatcaagtaccatacttctatccaaatcattaagttcgag
18556360

Query: 1741 atcctttttgataacctctcttatagtccttttgggtcttctctgcctcgaattgtttg
1800

|||||
Sbjct: 18556359 atcctttttgataacctctcttatagtccttttgggtcttctctgcctcgaatagtttg
18556300

Query: 1801 tcttctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatg
1860

|||||
Sbjct: 18556299 tcttctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatg
18556240

Query: 1861 cccaaaccacctaagtctattttccaccatcttctctacaataggcgctactccaaccct
1920

|||||
Sbjct: 18556239 cccaaaccacctaagtctattttccaccatcttctctacaataggcgctattccaaccct
18556180

Query: 1921 ctctctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgcaa
1980

|||||
Sbjct: 18556179 ctctctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgcaa
18556120

Query: 1981 catcctcatctccgctacacctactttattctcatggtggctcttgaccgccaacattc
2040

|||||
Sbjct: 18556119 catcctcatctccgctacacctactttattttcatggtggctcttgaccgccaacattc
18556060

Query: 2041 tgttccgtacaaaatcgccgggtcttaccgcagtcgataaaaactttccctttagcttgat
2100

|||||
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 Identities = 2789/2809 (99%), Gaps = 4/2809 (0%)
 Strand = Plus / Minus

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Query: 7534 ttgtatcatcgaggatttcacccaaaccctccaaattcaaagagcttgagaaactgggtg
7593

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Sbjct: 18550590 ttgtatcatcgaggatttcacccaaaccctccaaattcaaagagcttgagaaactgggtg
18550531

Query: 7594 gtggttgtgcatatgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatg
7653

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Sbjct: 18550530 gtggttgtgcatatgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatg
18550471

Query: 7654 tgaagttgaagagtttcccaaataatagaaaacatagtaattatttcctcatcatcttgca
7713

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Sbjct: 18550470 tgaagttgaagagtttcccaaataatagaaaacatagtaattatttcctcatcatcttgca
18550411

Query: 7714 gcatacatgccctgtactgaaaacaatcaccaacaaatgatacggggaca 7762

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Sbjct: 18550410 gcatacatgccctgtactgaaaacaatcaccaacaaatgatacggggaca 18550362

Score = 1600 bits (807), Expect = 0.0
Identities = 813/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 34062226 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
34062167

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 34062166 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
34062107

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 34062106 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
34062047

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 34062046 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
34061987

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttctta
1942

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Sbjct: 34061986 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttctta
34061927

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 34061926 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
34061867

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 34061866 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgctcggt
34061807

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 34061806 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
34061747

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 34061746 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
34061687

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 34061686 tcaatttccccatcatcctgtattacagacccaagatatatttaaaccgtgtgacttgaggg
34061627

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 34061626 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
34061567

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 34061566 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
34061507

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 34061506 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
34061447

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 34061446 tctgcaaaaagcatgcatctcggcgctatctcttg 34061412

Score = 1600 bits (807), Expect = 0.0
Identities = 813/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 40632215 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
40632274

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 40632275 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
40632334

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 40632335 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40632394

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 40632395 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
40632454

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 40632455 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
40632514

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 40632515 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
40632574

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 40632575 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
40632634

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 40632635 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40632694

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 40632695 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
40632754

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 40632755 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
40632814

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 40632815 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
40632874

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 40632875 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
40632934

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 40632935 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
40632994

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 40632995 tctgcaaaaagcatgcatctcggcgctatctcttg 40633029

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 25795331 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
25795390

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 25795391 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
25795450

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 25795451 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
25795510

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
1882

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Sbjct: 25795511 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
25795570

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 25795571 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
25795630

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 25795631 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25795690

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 25795691 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
25795750

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 25795751 gttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
25795810

Query: 2123 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 25795811 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
25795870

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 25795871 tcaatttccccatcatcctgtattatagaccaagatatttaaaccgtgtcacttgaggg
25795930

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 25795931 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
25795990

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 25795991 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
25796050

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 25796051 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
25796110

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 25796111 tctgcaaaaagcatgcatctcggcgctatctcttg 25796145

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 43613363 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
43613422

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 43613423 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
43613482

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 43613483 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
43613542

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 43613543 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
43613602

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 43613603 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
43613662

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 43613663 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
43613722

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 43613723 actttattctcatgttggctcttgaccgcccacattctgttcggtacaaaatcgccggt
43613782

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 43613783 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
43613842

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 43613843 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
43613902

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 43613903 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
43613962

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 43613963 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
43614022

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 43614023 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
43614082

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 43614083 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
43614142

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 43614143 tctgcaaaaagcatgcatctcggcgctatctcttg 43614177

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 50208300 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
50208359

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 50208360 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
50208419

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 50208420 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
50208479

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 50208480 ctcttactacagagtctaccggtcttctctctacatgctcaaaccacctaagtctattt
50208539

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 50208540 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
50208599

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 50208600 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
50208659

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 50208660 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
50208719

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 50208720 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
50208779

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 50208780 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
50208839

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 50208840 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
50208899

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 50208900 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttggtgaactta
50208959

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 50208960 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
50209019

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 50209020 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
50209079

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 50209080 tctgcaaaaagcatgcatctcggcgctatctcttg 50209114

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 5826737 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
5826678

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 5826677 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
5826618

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 5826617 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
5826558

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 5826557 ctctcactacagaatctaccggtcttctctctacatgcccaaaccacctaagtctattt
5826498

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 5826497 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
5826438

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 5826437 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
5826378

Query: 2003 actttattctcatggttggtctttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 5826377 actttattcccatggttggtctttgaccgcccacattctgttccgtacaaaatcgccggt
5826318

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 5826317 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
5826258

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 5826257 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
5826198

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||

Sbjct: 5826197 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5826138

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 5826137 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
5826078

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 5826077 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
5826018

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 5826017 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
5825958

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 5825957 tctgcaaaaagcatgcatctcggcgctatctcttg 5825923

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 7658762 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
7658821

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 7658822 tcaagtaccatacttctgattcaaaccattaatttcgagatcctttttgataacctctctt
7658881

Query: 1763 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

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9127243

Query: 1703 tcaagtaccatacttctatccaaaccatttaatttcgagatcctttttgataacctctctt
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Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
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2362

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9126583

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
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Sbjct: 9126582 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
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Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
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18837378

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
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18836778

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
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Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

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Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
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Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
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Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

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44758913

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
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2182

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2242

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44759453

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2302

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Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
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44759633

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

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1702

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45901623

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
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1942

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Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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45901923

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2062

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45902043

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2182

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Sbjct: 45902164 ataatatggtctcctattttcacctctgagttagaaaccttccttcttttgttgaactta
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Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
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Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

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49829229

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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49829289

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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1882

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49829409

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49829469

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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49829529

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 49829530 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
49829589

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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49829649

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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49829709

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 49829710 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
49829769

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 49829770 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
49829829

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 49829830 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagaactcgt
49829889

Query: 2363 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 49829890 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
49829949

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 49829950 tctgcaaaaagcatgcatctcagcactatctcttg 49829984

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 28772622 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgtttta
28772563

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 28772562 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
28772503

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 28772502 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
28772443

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 28772442 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
28772383

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 28772382 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
28772323

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||

Sbjct: 28772322 attttatcatgtcgagtcttaccacacatccaccgcaacatcctcatctccgttacacct
28772263

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 28772262 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
28772203

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
2122

|||||

Sbjct: 28772202 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
28772143

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||

Sbjct: 28772142 acccccgatgcttttctccatttcatccatcctgcttgaatgtgatgattcacatccct
28772083

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||

Sbjct: 28772082 tcaatttccccatcatcctgtattacagaccaagatatattaaactgtgtgacttgaggg
28772023

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacta
2302

|||||

Sbjct: 28772022 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacta
28771963

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 28771962 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
28771903

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 28771902 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
28771843

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||

Sbjct: 28771842 tctgcaaaaagcatgcatctcggcgctatctcttg 28771808

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
Sbjct: 5676220 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
5676161

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
Sbjct: 5676160 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
5676101

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgctctctccatctgggtctact
1822
Sbjct: 5676100 ataggctttttgggtcttcctctgcctcgaattgtttgctctctccatctgggtctact
5676041

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
Sbjct: 5676040 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5675981

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
Sbjct: 5675980 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
5675921

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
Sbjct: 5675920 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
5675861

Query: 2003 actttattctcatgttggtctttgaccgcccacattctgttccgtacaaaatcgccgggt
2062
Sbjct: 5675860 actttattctcatgttggtctttgaccgcccacattctgttccgtacaaaatcgccgggt
5675801

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 5675800 cttaccgcagtcgcgataaaaactttccctttggcttgatcggtacctttgcatcacataac
5675741

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 5675740 acccccaatgctttttctccatttcatccatcctgcttgaatgcatgattcacatccct
5675681

Query: 2183 tcaattttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 5675680 tcaattttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5675621

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 5675620 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
5675561

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 5675560 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
5675501

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 5675500 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
5675441

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 5675440 tctgcaaaaagcatgcatctcggcgctatctcttg 5675406

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 32305757 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
32305698

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 32305697 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
32305638

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 32305637 atagtctttttgggtcttcctctgcctcgaatagttgtcttctctccatctggtctact
32305578

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 32305577 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
32305518

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 32305517 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
32305458

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 32305457 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
32305398

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 32305397 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
32305338

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 32305337 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
32305278

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 32305277 acccctgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
32305218

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 32305217 tcaatttccccatcatccttatattacagacccaagatatattaactgtgtgacttgaggg
32305158

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 32305157 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
32305098

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 32305097 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
32305038

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 32305037 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
32304978

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 32304977 tctgcaaaaagcatgcatctcggcgctatctcttg 32304943

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 37649447 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
37649388

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 37649387 tcaagtaccatacttctgatccaaatcattaatttcgagatccttttttataacctctctt
37649328

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 37649327 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctggtctact
37649268

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882

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Sbjct: 37649267 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
37649208

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgttttcta
1942

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Sbjct: 37649207 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgttttcta
37649148

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 37649147 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
37649088

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 37649087 actttattctcatgttgggtattgaccgccccaacattctgttccgtacaaaatcgccggt
37649028

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 37649027 cttaccgtagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
37648968

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 37648967 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
37648908

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 37648907 tcaatttccccatcatcctgtattacaaacccaagatatattaaaccgtgtgacttgaggg
37648848

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 37648847 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
37648788

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 37648787 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
37648728

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 37648727 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
37648668

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 37648667 tctgcaaaaagcatgcatctcggcgctatctcttg 37648633

Score = 1558 bits (786), Expect = 0.0
Identities = 807/814 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 28336130 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
28336071

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 28336070 tcaagtaccatacttctatccaaaccattgagttcgagatcctttttgataacctctctt
28336011

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 28336010 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
28335951

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 28335950 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
28335891

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 28335890 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
28335831

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 28335830 attttatcctgtcaagtcttaccacacatccaccgcagcatcctcatctccgctacacct
28335771

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 28335770 actttattctcatgttggctcttgaccgcccagcattctgttcggtacaaaatcgccggt
28335711

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 28335710 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
28335651

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 28335650 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
28335591

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 28335590 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
28335531

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 28335530 ataatatggtctcctattttcacctctgagttggaaccctccttcttttgttgaactta
28335471

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 28335470 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
28335411

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 28335410 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
28335351

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctctt 2456

|||||
Sbjct: 28335350 tctgcaaaaagcatgcatctcggcgctatctctt 28335317

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 873472 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
873413

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 873412 tcaagtaccataatttctatccaaatcattaagttcgagatccttttttataacctctctt
873353

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 873352 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatttgggtctact
873293

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 873292 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
873233

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 873232 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
873173

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 873172 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccggttacacct
873113

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 873112 actttattctcatgttgactcttgaccgccaacattctgttccgtacaaaatcgccggt
873053

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 873052 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
872993

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 872992 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
872933

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 872932 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
872873

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 872872 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
872813

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 872812 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
872753

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 872752 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
872693

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 872692 tctgcaaaaagcatgcatctcggcgctatctcttg 872658

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 21752140 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
21752081

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 21752080 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
21752021

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 21752020 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
21751961

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 21751960 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
21751901

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 21751900 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
21751841

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 21751840 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
21751781

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 21751780 acttttagtctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
21751721

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 21751720 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
21751661

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 21751660 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
21751601

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 21751600 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
21751541

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 21751540 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
21751481

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 21751480 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
21751421

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 21751420 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
21751361

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 21751360 tctgcaaaaagcatgcatctcggcgctatctcttg 21751326

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 38195209 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
38195268

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 38195269 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
38195328

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 38195329 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctagtctact
38195388

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 38195389 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
38195448

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 38195449 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
38195508

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 38195509 attttatcctgtcgagtcttaccacacatccatcgcaacatcctcatctccgctacacct
38195568

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 38195569 actttattctcatgttggtccttgaccgccaacattctgttcggtacaaaatcgccggt
38195628

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 38195629 cttactgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
38195688

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 38195689 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
38195748

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 38195749 tcaatttctccatcctcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
38195808

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 38195809 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttggtgaactta
38195868

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 38195869 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
38195928

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 38195929 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
38195988

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 38195989 tctgcaaaaagcatgcatctcggcgctatctcttg 38196023

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 1022027 aacgccttatcccactaggtggggctcggtacatggattaacttccgccataatgttcta
1022086

Query: 1703 tcaagtaccataacttctatccaaaccattaatttgcgagatcctttttgataacctctctt
1762

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Sbjct: 1022087 tcaagtaccatactttctatccaaatcattaagttcgagatcctttttgataacctctctt
1022146

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

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Sbjct: 1022147 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1022206

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 1022207 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1022266

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 1022267 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1022326

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 1022327 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1022386

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 1022387 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgctgggt
1022446

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 1022447 cttaccacagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
1022506

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 1022507 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
1022566

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 1022567 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
1022626

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 1022627 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
1022686

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 1022687 cattccatataactccgatttgcttctgcttaggcgaaagtcagtggtttctagagctcgt
1022746

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 1022747 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
1022806

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 1022807 tctgcaaaaagcatgcatctcggcgctatctcttg 1022841

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 45774424 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
45774483

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 45774484 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
45774543

Query: 1763 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 45774544 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact
45774603

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 45774604 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctattt
45774663

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 45774664 ttcaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
45774723

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 45774724 attttatcctgtcaagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45774783

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 45774784 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
45774843

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 45774844 cttaccgcagtcgataaaaactttcccttagcttaatcggtacctttgcatcacataac
45774903

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 45774904 acccccgatgcttttctccatttcatccatcctgcttgaatgcaatgattcacatccct
45774963

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 45774964 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
45775023

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 45775024 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaactta
45775083

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 45775084 cattccatataactccgatttgcttctgcttaggcgaaaacccatgtgtttctagagctcgt
45775143

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 45775144 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
45775203

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 45775204 tctgcaaaaagcatgcatctcggcgctatctcttg 45775238

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 45898113 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
45898172

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 45898173 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctatctt
45898232

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 45898233 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
45898292

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

|||||
Sbjct: 45898293 atctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
45898352

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 45898353 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
45898412

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 45898413 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45898472

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 45898473 acttttagtctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
45898532

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 45898533 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
45898592

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 45898593 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
45898652

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 45898653 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
45898712

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 45898713 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
45898772

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 45898773 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
45898832

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 45898833 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
45898892

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 45898893 tctgcaaaaagcatgcatctcggcgctatctcttg 45898927

Score = 1521 bits (767), Expect = 0.0
Identities = 803/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 39108736 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
39108795

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 39108796 tcaagtatcatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
39108855

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 39108856 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
39108915

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
||||
Sbjct: 39108916 ctccccactacagagtctaccggtattctctctacatacccaaaccacctaagtctattt
39108975

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 39108976 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
39109035

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 39109036 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39109095

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 39109096 actttattctcatgttagctcttgaccgccaacgttctgttctgtacaaaatcgccgat
39109155

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 39109156 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
39109215

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 39109216 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
39109275

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 39109276 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtggcttgaggg
39109335

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgtagaactta
2302

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Sbjct: 39109336 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgtagaactta
39109395

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 39109396 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
39109455

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 39109456 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
39109515

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 39109516 tctgcaaaaagcatgcatctcggcgctatctcttg 39109550

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 16191404 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
16191345

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 16191344 tcaagtaccatacttctatccagatcattaagttcgagatcctttttgataacctctctt
16191285

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgcttctctccatctgggtctact
1822

|||||
Sbjct: 16191284 atagtcttcttgggtcttctctgcctcgaattgtttgcttctctccatctgggtctatt
16191225

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882

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Sbjct: 16191224 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
16191165

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942

|||||
Sbjct: 16191164 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
16191105

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 16191104 attttatcctgtcgagtcttaccacacatccaccgcaatcctcatctccgctacacct
16191045

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 16191044 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
16190985

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 16190984 cttaccgcagtcgcgataaaactttcccttttagcttgatcggtacctttgcatcacataac
16190925

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||

Sbjct: 16190924 accctcgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
16190865

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 16190864 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
16190805

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 16190804 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
16190745

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 16190744 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
16190685

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 16190684 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
16190625

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 16190624 tctgcaaaaagcatgcatctcagcgctatctcttg 16190590

Score = 1505 bits (759), Expect = 0.0
Identities = 801/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 9009292 aacgccttatcccactaggtggggctcggtacatgaatcaacttccgccataatgttcta
9009233

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
1762

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Sbjct: 9009232 tcaagtaccatacttctatccaaatcattaagttcgagatccttttgataacctcactt
9009173

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 9009172 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
9009113

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 9009112 ctctcactacagagcctaccggtcttctctctacatgcccaaaccacctaagtctattt
9009053

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 9009052 tccaccatcttctctacgataggcgctactccaaccctctctctaatagtctcgtttcta
9008993

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002

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Sbjct: 9008992 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
9008933

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcgtaaaaaatcgccggt
2062

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Sbjct: 9008932 actttattctcatgttgggtcttgaccgccaacattctgttcgtaaaaaatcgtcggt
9008873

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 9008872 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
9008813

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 9008812 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
9008753

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttcgcataaatgttcta
1702

Query: 1703 tcaagtaccatacttcttatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Query: 1763 atagtctttttgggtcttctctgcctogaattgtttgtcttctctccatctggctact
1822

[illegible]

Sbjct: 48655263 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
48655204

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 48655203 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
48655144

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 48655143 tccaccatcttctctacaataggcgctactccaaccctcactctaatagtttgtttcta
48655084

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 48655083 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccactacacct
48655024

Query: 2003 actttattctcatgttggtctttgaccgcccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 48655023 actttagtctcatgttggtctttgaccgcccaacattctgttccgtacaaaatcgccggt
48654964

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 48654963 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
48654904

Query: 2123 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 48654903 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatccct
48654844

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 48654843 tcaatttctccatcatcctgtattacagaccaagatatattaactgtgtgacttgaggg
48654784

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 48654783 ataatatggtctcctatccccacctctgagctagataccctcctacttttgttgaactta
48654724

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 48654723 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgg
48654664

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 48654663 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
48654604

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 48654603 tctgcaaaaagcatgcatctcggcgactatctcttg 48654569

Score = 1499 bits (756), Expect = 0.0
Identities = 802/815 (98%), Gaps = 3/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 4717495 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
4717554

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 4717555 tcaagtaccatacttctatccaaatcattaagttcga--tcctttttgataacctctctt
4717612

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 4717613 atagtcttttttaggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
4717672

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 4717673 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
4717732

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 4717733 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
4717792

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 4717793 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
4717852

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 4717853 actttattttcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
4717912

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 4717913 cttaccgcagtcggataaaa-ctttcccttttagcttgatcggtacctttgcatcacataac
4717971

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 4717972 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
4718031

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 4718032 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
4718091

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 4718092 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
4718151

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

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Sbjct: 4718152 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagaactcgt
4718211

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 4718212 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
4718271

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 4718272 tctgcaaaaacatgtatctcggcgctatctcttg 4718306

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 13234538 aacgccttatcctactaggtggggtcggctacatggatcaacttccgccataatgttcta
13234597

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 13234598 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
13234657

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 13234658 atagtctttttgggtcttctctgcctcaaattgtttgccttctctccatctagtctact
13234717

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 13234718 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
13234777

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 13234778 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
13234837

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 13234838 attttatcctgtcgagttcttaccacacatccaccgcaacatcctcatctccgctacacct
13234897

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 13234898 actttagtctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
13234957

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 13234958 cttaccgcagtcgataaaaactttaccttagcttgatcggtacctttgcatcacataac
13235017

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 13235018 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
13235077

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 13235078 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
13235137

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaacta
2302

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Sbjct: 13235138 ataatttggtctcctattttccacctctgagttagataccctcctacttttgttgaaacta
13235197

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 13235198 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
13235257

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 13235258 ctccaagtttccaacctcttattcaactcctccctcgactctccaaggaggactatgtca
13235317

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 13235318 tctgcaaaaagcatgcatctcggcgctatctcttg 13235352

Score = 1481 bits (747), Expect = 0.0
Identities = 798/815 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 47323927 aacgccttatcccattaggtggggtcggctacatggatcaacttccgccataatgttcta
47323986

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 47323987 tcaagtactatacttctatccaaatcattaagttcgaaagccttcttgataacctctctt
47324046

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 47324047 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
47324106

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882
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Sbjct: 47324107 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
47324166

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
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Sbjct: 47324167 tccaccatcttttctacaataggcgctactccaaccctctctctaatagtctcgtttcta
47324226

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 47324227 attttatcctgtcgagtcttaccacacattcaccgcaacatcctcatctccgctacacct
47324286

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 47324287 acttttagtctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
47324346

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 47324347 cttaccgcaatccgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
47324406

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 47324407 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
47324466

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 47324467 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
47324526

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 47324527 ataatatggtctcctattttcacctctgagttagataaccctcctacttttgttgaactta
47324586

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 47324587 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
47324646

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 47324647 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
47324706

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 47324707 tctgcaaaaagcatgcatctcggcgctatctcttg 47324741

Score = 1473 bits (743), Expect = 0.0
Identities = 797/815 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 23628866 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
23628807

Sbjct: 23628806 atagtccttttgggtcttcctctgtctcgaattgtttgcattctctccatctgggtctact
23628747

Sbjct: 23628746 ctcctcactacagagtctaccggtcttctctctacatgcccaaatcacctaagttctattt
23628687

Sbjct: 23628686 ttcaccatcttctctacaataggcgctactccaaccctctctctaatagctccgtttcta
23628627

Sbjct: 23628626 attttatcctgtcgtgtcttaccacacatccaccgcaacatcctcatctccgctacacct
23628567

Sbjct: 23628566 actttagtctcatgttggtccttgaccgccaacattctgttcggtacaaaatcgccggt
23628507

Sbjct: 23628506 cttaccgcagtcgcgataaaactttcccttagcttgatcggtaccttgcacataac
23628447

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

Sbjct: 23628446 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 23628387

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 23628386 tcaatttctccatcatcctgtattacagacccaagatatttaaactgtgtgacttgaggg
 23628327

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 23628326 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
 23628267

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 23628266 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 23628207

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 23628206 ctccaagtttccaacctctcattcaactcctccctcgactctctaaggaagactatgtca
 23628147

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 23628146 tctgcaaaaagcatgcatctcggcgctatctcttg 23628112

Score = 1459 bits (736), Expect = 0.0
 Identities = 799/819 (97%), Gaps = 7/819 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 50700692 aacgccttatcccactaggtgggggttggtacatggatcaacttccgccataatgttcta
 50700633

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 50700632 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 50700573

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 50700572 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
50700513

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 50700512 ctctcactacagagtctactggtcttctctctacatgccccaaaccacctaagtctattt
50700453

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 50700452 tccaccatcttctctacaataggcgct---ccaaccctctctctaatagtctcgtttcta
50700396

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 50700395 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
50700336

Query: 2003 actttattctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 50700335 actttagtctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
50700276

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggt----acctttgcatcaca
2118

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Sbjct: 50700275 cttaccgcagtcgataaaaactttccctttagcttgatcggtcggtacctttgcatcaca
50700216

Query: 2119 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
2178

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Sbjct: 50700215 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
50700156

Query: 2179 cccttcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttg
2238

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Sbjct: 50700155 cccttcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttg
50700096

Query: 2239 agggataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaa
2298

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Sbjct: 50700095 agggataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaa
50700036

Query: 2299 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
2358

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Sbjct: 50700035 cttacattccatataactccgatttgcttctgcttaggcaaaagccatgtgtttctagagc
50699976

Query: 2359 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
2418

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Sbjct: 50699975 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
50699916

Query: 2419 gtcacatcgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 50699915 gtcacatcgcaaaaagcatgcatctcggcgctatctcttg 50699877

Score = 1431 bits (722), Expect = 0.0
Identities = 752/762 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 14975379 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
14975438

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 14975439 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttaataacctctctt
14975498

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 14975499 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgatctact
14975558

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||

Sbjct: 14975559 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
14975618

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 14975619 tccacaatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
14975678

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 14975679 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
14975738

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 14975739 actttattctcatggttggtctcttgaccgccaacattttgttcggtacaaaatcgccagt
14975798

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 14975799 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
14975858

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 14975859 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
14975918

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

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Sbjct: 14975919 tcaatttctccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
14975978

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 14975979 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
14976038

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 14976039 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
14976098

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactct 2404
|||||
Sbjct: 14976099 ctccaagtttccaacctctcattcaactcctccctcgactct 14976140

Score = 1360 bits (686), Expect = 0.0
Identities = 699/702 (99%), Gaps = 1/702 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 38427482 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
38427541

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 38427542 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
38427601

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 38427602 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
38427661

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 38427662 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
38427721

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
|||||
Sbjct: 38427722 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
38427781

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 38427782 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38427841

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataaac
2122

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatccctt
2182

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagcca 2344
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Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

Query: 1703 tcaagtaccatacttcttatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

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Sbjct: 12743325 tcaagtaccatacttctatccaaactattaatttcgagatcctttttataacctctctt
12743384

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 12743385 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
12743444

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 12743445 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
12743504

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 12743505 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
12743564

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 12743565 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12743624

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 12743625 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
12743684

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 12743685 cttaccgcagttcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
12743744

Query: 2123 accccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 12743745 actcccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
12743804

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 12743805 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
12743864

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 12743865 ataatatgggtctcctattttcacctctgagttagaaacccttcttcttttgttgaactta
12743924

Query: 2303 cattcc 2308

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Sbjct: 12743925 cattcc 12743930

Score = 1271 bits (641), Expect = 0.0
Identities = 653/657 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 13717 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
13776

Query: 1703 tcaagtaccatacttctatccaaaccattaatctcgagatcctttttgataacctctctt
1762

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Sbjct: 13777 tcaagtaccatacttctatccaaaccattaatctcgagatcctttttataacctctctt
13836

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 13837 atagtctttttgggtcttcctctgcctcgaattggttgtcttctctccatctgggtctact
13896

Query: 1823 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 13897 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
13956

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

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Sbjct: 13957 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
14016

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct 2002
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 14017 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg 14076

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt 2062
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 Sbjct: 14077 actctattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt 14136

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac 2122
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 14137 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac 14196

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct 2182
 ||||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 14197 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct 14256

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg 2242
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 14257 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg 14316

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaac 2299
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 14317 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaac 14373

Score = 1265 bits (638), Expect = 0.0
 Identities = 665/674 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggtacatggatcaacttccgccataatgttcta 1702
 ||||||||||||||||||||||||| |||||||||||||||||||||||||||||||||
 Sbjct: 20737477 aacgccttatcccactaggtgggggtcgactacatggatcaacttccgccataatgttcta 20737418

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt 1762

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Sbjct: 20737417 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataaacctctctt
20737358

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 20737357 atagtctttttgggtcttcctcttcctcgaattgtttgtcttctctccatctgggtctact
20737298

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 20737297 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
20737238

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 20737237 tccaccatcttctctacaataggcgctacttcaaccctctctctaatagcttcgtttcta
20737178

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 20737177 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
20737118

Query: 2003 actttattctcatggttggtctttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 20737117 actttattctcatggttggtctttgaccgccccaacattctgttccgtacaaaatcgccggt
20737058

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 20737057 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
20736998

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 20736997 acgcccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
20736938

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 20736937 tcaatttcccatcatcctatattacagacccaagatatttaaaccgtgtgacttgaggg
20736878

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 20736877 ataatatgatctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
20736818

Query: 2303 cattccatatactc 2316
|||||||

Sbjct: 20736817 cattccatatactc 20736804

Score = 1168 bits (589), Expect = 0.0
Identities = 617/625 (98%), Gaps = 1/625 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 44920610 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
44920551

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 44920550 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
44920491

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 44920490 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
44920431

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
1882

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Sbjct: 44920430 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
44920371

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 44920370 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
44920311

Query: 1943 attttatcctgctcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 44920310 attttatcctgctcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
44920251

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 44920250 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
44920191

Query: 2063 cttaccgcagtcgataaaac-tttcccttttagcttgatcggtacctttgcatcacataa
2121
|||||
Sbjct: 44920190 attaccgcagtcgataaaactttcccttttagcttgatcggtacctttgcatcacataa
44920131

Query: 2122 ccccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccc
2181
|||||
Sbjct: 44920130 ccccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccc
44920071

Query: 2182 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2241
|||||
Sbjct: 44920070 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
44920011

Query: 2242 gataatatggtctcctattttcacc 2266
|||||
Sbjct: 44920010 gataatatggtctcctattttcacc 44919986

Score = 1112 bits (561), Expect = 0.0
Identities = 588/597 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 33749330 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
33749271

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 33749270 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataaacctctctt
33749211

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 33749210 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
33749151

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 33749150 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
33749091

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
1942

|||||
Sbjct: 33749090 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
33749031

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 33749030 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgttaaacct
33748971

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 33748970 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
33748911

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 33748910 cttaccacagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
33748851

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 33748850 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
33748791

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttga
2239

|||||

Sbjct: 33748790 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttga
33748734

Score = 1090 bits (550), Expect = 0.0
Identities = 559/562 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 19142543 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
19142484

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 19142483 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
19142424

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 19142423 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
19142364

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 19142363 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
19142304

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 19142303 tccaccatcttctctacaataagcgctactccaaccctctctctaatagcttcgtttcta
19142244

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 19142243 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19142184

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||

Sbjct: 19142183 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
19142124

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 19142123 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
19142064

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

|||||
Sbjct: 19142063 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
19142004

Query: 2183 tcaatttcccatcatcctgta 2204
|||||

Sbjct: 19142003 tcaatttcccatcatcctgta 19141982

Score = 967 bits (488), Expect = 0.0
Identities = 509/516 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 45128064 aacgccttatccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
45128123

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 45128124 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttataacctctctt
45128183

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 45128184 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
45128243

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 45128244 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
45128303

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
|||||
Sbjct: 45128304 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
45128363

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 45128364 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45128423

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
| |||||
Sbjct: 45128424 actttattctcatggttggtctcttgaccgccaacattttgttccgtacaaaatcgccggt
45128483

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 45128484 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
45128543

Query: 2123 acccccgatgcttttctccatttcatccatcctgct 2158
|||||
Sbjct: 45128544 acccccgatgcttttctccatttcatccatcctgct 45128579

Score = 914 bits (461), Expect = 0.0
Identities = 491/501 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatggttcta
1702
|||||
Sbjct: 36730612 aacgccttatccattaggtggggtcgggtacatggatcaacttccgccataatggttcta
36730671

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762
|||||
Sbjct: 36730672 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataaacctctctt
36730731

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 36730732 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
36730791

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882

|||||
Sbjct: 36730792 ctcctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
36730851

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 36730852 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
36730911

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 36730912 attttatcctgtcgagtcttaccacgcacatccaccgcaacatcctcatctccgctacacct
36730971

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 36730972 actttagtctcatgttgggtctttaaccgccccaacattctgttccgtacaaaattgccggt
36731031

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 36731032 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
36731091

Query: 2123 acccccgatgcttttctccat 2143

|||||
Sbjct: 36731092 acccccgatgcttttctccat 36731112

Score = 906 bits (457), Expect = 0.0
Identities = 475/481 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 28667554 aacgtcttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
28667495

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 28667494 tcaagtaccatactttgattcaaaccattaatttcgagatcctttttgataacctctctt
28667435

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggctact
1822

|||||
Sbjct: 28667434 atagtctttttgggccttctctgctcgaattgtttgtcttctctccatctggctact
28667375

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 28667374 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
28667315

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttctta
1942

|||||
Sbjct: 28667314 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttctta
28667255

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 28667254 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
28667195

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 28667194 actttattctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
28667135

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 28667134 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
28667075

Query: 2123 a 2123

|
Sbjct: 28667074 a 28667074

Score = 845 bits (426), Expect = 0.0
Identities = 456/466 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 785667 aacgccttatcccattaggtggggctcggctacatggatcaacttccgccataatgttcta
785608

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 785607 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
785548

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 785547 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctatt
785488

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882
|||||
Sbjct: 785487 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
785428

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942
|||||
Sbjct: 785427 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgttttta
785368

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 785367 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
785308

Query: 2003 actttattctcatgttgggtcttgaccgccaacatttctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 785307 actttattctcatgttgggtcttgaccgtccaacattttgtccgtacaaaatcgccggt
785248

Query: 2063 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacct 2108
|||||

Sbjct: 785247 cttaccgcagtcgcgataaaactttcccttttagcttgatcggtacct 785202

Score = 676 bits (341), Expect = 0.0
Identities = 341/341 (100%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatca
1705

|||||
Sbjct: 18400442 gccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatca
18400501

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

|||||
Sbjct: 18400502 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
18400561

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825

|||||
Sbjct: 18400562 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
18400621

Query: 1826 ctccactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattttcc
1885

|||||
Sbjct: 18400622 ctccactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattttcc
18400681

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttctaatt
1945

|||||
Sbjct: 18400682 accatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttctaatt
18400741

Query: 1946 ttatcctgtcgcgagtcttaccacacatccaccgcaacatcct 1986

|||||
Sbjct: 18400742 ttatcctgtcgcgagtcttaccacacatccaccgcaacatcct 18400782

Score = 640 bits (323), Expect = 0.0
Identities = 370/386 (95%), Gaps = 6/386 (1%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 46853226 aacgccttatcctattaggtggggctcggctacatggatcaacttccgccataatgttcta
46853285

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 46853286 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
46853345

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 46853346 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctc-----gtctact
46853399

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 46853400 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
46853459

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 46853460 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
46853519

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 46853520 attttatcctgtcagagtcttaccacacattcaccgcaacatcctcatctccgctacacct
46853579

Query: 2003 actttattctcatgttggtctttgac 2028

|||||
Sbjct: 46853580 actttattctcatgttgactcttgac 46853605

Score = 636 bits (321), Expect = e-179
Identities = 339/345 (98%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
1705

|||||

Sbjct: 10875212 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
10875271

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

|||||
Sbjct: 10875272 agtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctcttata
10875331

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825

|||||
Sbjct: 10875332 gtctttttgagtccttcctctgcctcgaattgtttgccttctctccatctgggtctactctc
10875391

Query: 1826 ctcaactacagagtcctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
1885

|||||
Sbjct: 10875392 ctcaactacagagtcctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
10875451

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttctaatt
1945

|||||
Sbjct: 10875452 accatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttctaatt
10875511

Query: 1946 ttatcctgtcgagtccttaccacacatccaccgcaacatcctcatc 1990

|||||
Sbjct: 10875512 ttatcctgtcgagtccttaccacacatccaccgcaacatcctcatc 10875556

Score = 448 bits (226), Expect = e-123
Identities = 242/246 (98%), Gaps = 1/246 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 13304921 aacgccttatcccactaggtgggggtcggctacatggattaacttccgccataatgttcta
13304980

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 13304981 tcaagtaccatacttctattcaaacattaatttcgagatcctttttgataacctctctt
13305040

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 13305041 atagtcttttt-ggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
13305099

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882
|||||
Sbjct: 13305100 ctctcactacagagtctatcggtcttctctctacatgccccaaaccacctaagtctattt
13305159

Query: 1883 tccacc 1888
|||||
Sbjct: 13305160 tccacc 13305165

Score = 448 bits (226), Expect = e-123
Identities = 247/254 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 37992446 aacgccttatccactaggtggggtcggctacatgaatcaacttccgccataatgttcta
37992505

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 37992506 tcaaataccatacttctatccaaatcatthaagttcgagatcctttttgataacctctctt
37992565

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 37992566 atagtctttttgggttttctctgcctcgaatagtttgtcttctctccatctggtctact
37992625

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882
|||||
Sbjct: 37992626 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
37992685

Query: 1883 tccaccatcttctc 1896
|||||

Sbjct: 37992686 tccaccatcttctc 37992699

Score = 432 bits (218), Expect = e-118
Identities = 233/238 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 42858351 aacgccttatccactaggtggggtcagctacatggatcaacttccgccataatgttcta
42858410

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 42858411 tcaagtaccatacttttatccaaatcattaagttcgagatcctttttgataacctctctt
42858470

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 42858471 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
42858530

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctat
1880

|||||
Sbjct: 42858531 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctat
42858588

Score = 309 bits (156), Expect = 4e-81
Identities = 300/344 (87%), Gaps = 13/344 (3%)
Strand = Plus / Minus

Query: 6303 attttttttgttattaattgtctatatttgtgttctgtttaaattgaaaacaatattatt
6362

|||||
Sbjct: 34361588 attttttgtgttattaattgtctatatttatttttttt--aagtgaaaataatattatt
34361531

Query: 6363 tttcatatgttggttaattcttaatttcttatgcataattttatgttttatcattttttt-aa
6421

||
Sbjct: 34361530 ttgcatatgttggttaattttt-----tttgatatattttatgttggtatcattttttgaa
34361478

Query: 6422 gagttgaaatcctttgtatTTTTTTTTTTTgattattataatacataattaacaaca
6481

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34361477 gagttaaaatcctttgtatTTTTCATTTTATTtgattattaaaatatataattaatcaaca
34361418

Query: 6482 acttaattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattt
6541

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34361417 acttaattgaaattaaaaaat--atatttaaccaataagttgaattgaactaaaatattt
34361360

Query: 6542 aaattacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataa
6601

||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34361359 aaactacaaaatagatataaaattacaataaatagagcacaatatttaaatttgaaa-aa
34361301

Query: 6602 tacaacaaaaatttttaaatacaaaacaatatggcataaaaattaa 6645

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34361300 tacaacaaaaatttttaaatacaaaacaatatgacataaaacttaa 34361257

Score = 305 bits (154), Expect = 7e-80
Identities = 166/170 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36783748 aacgccttatccactaggtgggggtcggctacatggatcaacttccaccataatgttcta
36783689

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36783688 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataatctctctt
36783629

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccat 1812

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36783628 atagtctttttgggtcttcctctgcctcgaattgtttgttttctctccat 36783579

Score = 254 bits (128), Expect = 2e-64

Identities = 214/239 (89%), Gaps = 4/239 (1%)
Strand = Plus / Plus

Query: 6393 tgcataatggtatggtttatcatttttt-aagagttgaaatcctttgtatgtttt-atttta
6450

|||||
Sbjct: 11204676 tgcataatggtatggtttatcattttttgaagagttgaaatcatttgtatgttttatttta
11204735

Query: 6451 tttgattattataatacataattaacaacaacttaattgaaattaaaaaatatatattt
6510

|||||
Sbjct: 11204736 tttgattattaaaaatacataattaatcaacaacttaattaaaattaaaaaatatat--tt
11204793

Query: 6511 aactgacaagttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaa
6570

|||
Sbjct: 11204794 aaccaacaagttgaattgaactaaaatattttaaaatcagatagatataaaattacaaa
11204853

Query: 6571 caatagaacaaaatattttaaatttgaaataataacaacaaaatttttaaaatacaaacaa
6629

|||||
Sbjct: 11204854 caatagaataaaaaattttaaattttaaacaataacaacaatttttttataatacaaacaa
11204912

Score = 246 bits (124), Expect = 5e-62
Identities = 139/144 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 30167306 aacgccttatccactaggtggggctcggctacatggatcaacttccgccacaaatattcta
30167247

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 30167246 tcaagtaccatacttctatccaaatcattaagttcgagatcgtttttgataacctctctt
30167187

Query: 1763 atagtctttttgggtcttcctctg 1786

|||||
Sbjct: 30167186 atagtctttttgggtcttcctctg 30167163

Score = 244 bits (123), Expect = 2e-61
 Identities = 135/139 (97%)
 Strand = Plus / Plus

Query: 1647 ccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatcaa
 1706
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 16531248 ccttatcccactaggtgggggtcggctacatggatcaacttctgccataatgttctatcaa
 16531307

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctcttatag
 1766
 ||||||||||||||||||||| ||||| ||||||| ||||||||||||||||||||
 Sbjct: 16531308 gtaccatacttctatccaaatcattaagtctcgagattctttttgataaacctctcttatag
 16531367

Query: 1767 tctttttgggtcttcctct 1785
 ||||||||||||||||
 Sbjct: 16531368 tctttttgggtcttcctct 16531386

Score = 242 bits (122), Expect = 8e-61
 Identities = 128/130 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 6264126 aacgccttatcccactaggtgggggtcggctacatggatcaacttctgccataatgttcta
 6264185

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
 1762
 ||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||
 Sbjct: 6264186 tcaagtaccatacttttatccaaaccattaatttcgagatcctttttgataaacctctctt
 6264245

Query: 1763 atagtctttt 1772
 ||||||||
 Sbjct: 6264246 atagtctttt 6264255

Score = 216 bits (109), Expect = 5e-53
 Identities = 275/328 (83%), Gaps = 3/328 (0%)

Strand = Plus / Minus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
 7490

|||||
 Sbjct: 23126025 atacaacaatgaaaaacacacatgacgactacaaatcattaaataataaaaataaaaatca
 23125966

Query: 7491 aataatttgaggaggagggt--cttcaaaacttgattcaagggtcattgtatcatcgaggt
 7548

|||||
 Sbjct: 23125965 aataaattggg-aggtttttcttcaaaactcgattcaagggttagtggtcatcgaggt
 23125907

Query: 7549 attcaccctaaacccctccaaattcaaagagcttgacagaaactgggtgggtgtgcatatg
 7608

|||||
 Sbjct: 23125906 attcatccaaaccccccaattcaaagaacgtgcagaaattgggtgggtgatgtgcacatg
 23125847

Query: 7609 tttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtt
 7668

| |
 Sbjct: 23125846 tctgtgtgggtgtgtatgcagtggttaatatataactccaagcatgtgagcttggagattt
 23125787

Query: 7669 tcccaaataatagaaaacatagtaattatttcctcatcatcttgacagcatacatgccctgt
 7728

| |
 Sbjct: 23125786 gcttgaacatagaaaacatagtcattatgtcctcaccatcgttcaacatgcatgccctgc
 23125727

Query: 7729 actgaaaacaatcaccaacaaatgatac 7756

|||||
 Sbjct: 23125726 actggccacaatcaccaacaaatgatac 23125699

Score = 212 bits (107), Expect = 8e-52
 Identities = 165/183 (90%), Gaps = 1/183 (0%)
 Strand = Plus / Minus

Query: 6485 taattgaaattaaaaaatatata-tttaactgacaagttgacttgaactaaaatatttaa
 6543

|||||
 Sbjct: 15704280 taattgaaatttaaaaaataaaatttaaccaacaagttgaattgaactaaaatatttaa
 15704221

Query: 6544 attacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataata
 6603

|||||
 Sbjct: 15704220 attacaaaatagatataaaattacaaataatagaacaaaatatttaaatttgaaacaata
 15704161

Query: 6604 caacaaaaattttaaaatacaaaacaatatggcataaaattaatggttggtggcctgagcct
 6663

||| |||
 Sbjct: 15704160 caataaaattttttaaaatacaaaaaaatatgacaaaaatttaatatggttggtgagcct
 15704101

Query: 6664 aca 6666
 |||
 Sbjct: 15704100 aca 15704098

Score = 212 bits (107), Expect = 8e-52
 Identities = 110/111 (99%)
 Strand = Plus / Minus

Query: 1836 agtctaccggtcttctctctacatgcccaaaccacctaagtctattttccaccatcttct
 1895

|||||
 Sbjct: 30167161 agtctactggtcttctctctacatgcccaaaccacctaagtctattttccaccatcttct
 30167102

Query: 1896 ctacaataggcgctactccaaccctctctctaataagcttcgtttctaattt 1946
 |||||||

Sbjct: 30167101 ctacaataggcgctactccaaccctctctctaataagcttcgtttctaattt 30167051

Score = 210 bits (106), Expect = 3e-51
 Identities = 280/336 (83%), Gaps = 4/336 (1%)
 Strand = Plus / Plus

Query: 6682 gacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatac
 6741

|||||
 Sbjct: 38089687 gacacatggaacatcgctttggttaactcaattctcagatatccatcttgggtgtggatat
 38089746

Query: 6742 gagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattcttg
 6801

|||||
 Sbjct: 38089747 gagaggagacagaatgaccctaagaatttcttttcatttttgggttggggcaaattcttg
 38089806

Query: 6802 gcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtaga
6861

|||||
Sbjct: 38089807 -cttgtgacatggtgaccaaatatgcttcggtgcataattctccaacaatcatatgtata
38089865

Query: 6862 tgttatagatacttttccagcgtatacacaagatgtatgtagttcctataactcatggtgag
6921

|||| |
Sbjct: 38089866 tgttggagacactttccaatgtatacacaggatgtatgtagttcctgtactcatgatgaa
38089925

Query: 6922 catgctt---ataaacaacaacatgagaacaaaacatgtgcattttttgaaatttgtaga
6978

||||| |
Sbjct: 38089926 catgcttacaagaacaacaacatgagaacaagacatgtgcaattttctgaaatttgtaga
38089985

Query: 6979 agtcacactacctttcatctagcttgaccatgaaat 7014

||||| |
Sbjct: 38089986 agtcacaccacttttcatccagcctgatcgtgaaat 38090021

Score = 192 bits (97), Expect = 7e-46
Identities = 133/145 (91%)
Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaa
1256

|||||
Sbjct: 5994401 tcatacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaa
5994342

Query: 1257 tatctgatatgtgggtcattggccacacatgatattaaattttattttttgaaggggtggggc
1316

|||||
Sbjct: 5994341 tatctgatatgtggatcattgggtccacacgatattaaattacttttttgatggggagggt
5994282

Query: 1317 ctgacatagtagcttgctactgggg 1341

| |
Sbjct: 5994281 ccgatacagtagcttgctactgggg 5994257

Score = 192 bits (97), Expect = 7e-46

Identities = 220/260 (84%), Gaps = 7/260 (2%)
Strand = Plus / Minus

Query: 7455 acaactacaaatcattaaataataacaattacaatcaaataattt----ggggaggggg--
7508

|||||
Sbjct: 36814005 acaactacaaatcattaaataataaaaataacaatcaattaaattcgaggggggggggat
36813946

Query: 7509 -tcttcaaaaacttgattcaagggttcattgtatcatcgaggattcacccaaaccctccaa
7567

|||||
Sbjct: 36813945 ttcttgaaaactcgattcatgggttcattgcttcatcgaggattcatccaaacactccaa
36813886

Query: 7568 attcaaagagcttgcagaaaactgggtgggtggttgatcatatgtttatgtgggtgtgtctac
7627

|||||
Sbjct: 36813885 attcaaagaacttgcaaaaattgggtgggtgatgtgcacatgtttgtgtgggtctatctac
36813826

Query: 7628 ggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacat
7687

|||||
Sbjct: 36813825 ggtggtaatatataacttaaggcatgtgaggttgagagttgctcgaacatatagaaaacat
36813766

Query: 7688 agtaattatttcctcatcat 7707

|||
Sbjct: 36813765 agtcattacatcctcatcat 36813746

Score = 190 bits (96), Expect = 3e-45
Identities = 210/247 (85%), Gaps = 2/247 (0%)
Strand = Plus / Minus

Query: 7509 tcttcaaaaacttgattcaagggttcattgtatcatcgaggattcacccaaaccctccaaa
7568

|||||
Sbjct: 15702130 tcttcaaaaactcgattttagggttcattgcttcatcgaggattcatccaaaccgcgcaaa
15702071

Query: 7569 ttcaaagagcttgcagaaaactgggtgggtggttgatcatatgtttatgtgggtgtgtctacg
7628

|||||
Sbjct: 15702070 ttcaaagagattgcagaaattgggtgggtggttgatcatatgtttatgtgggtgtgtttcct
15702011

```
Query: 1258      atctgatatgtgggtcattggccacatgatattaaatttattttttga 1306
                |||||
Sbjct: 18840911 atctgatatgtggaccattggttcacacgatattaaatttattttttga 18840959
```

```
Query: 5182      tagtgttatatatttagtgaaattaattatttttataacataattgatgtattagttcagttg
5241            ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 9558295 tagtgttttatataacaacattaattatttttataatataattgatgcattaactcagttt
9558354
```

Query: 5242 gttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaa
5301

||||| ||||||||| ||||||||| || ||||| ||||| || |||||||
Sbjct: 9558355 attagagtgttatgttaataacttgaaagtcacaaattcaaattcttatatgaatcattaa
9558414

Query: 5302 ttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340

||||||||||| || ||||||| |||||||
Sbjct: 9558415 ttttaaattaatttgtaagacatatattttttaaaaaaaaaa 9558453

Score = 170 bits (86), Expect = 3e-39
Identities = 168/194 (86%), Gaps = 1/194 (0%)
Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490

||||| ||||||| ||||||||| ||||||||||||||||| || ||| |||||
Sbjct: 38092989 atacagcaatgaaaaacacacatgatgactacaaatcattaaataacaaaatagcaatca
38093048

Query: 7491 aat-aatttggggaggggggtcttcaaaacttgattcaagggttcattgtatcatcgaggta
7549

||| |||| |||| ||||||||| ||||||| ||||||||||||||||| ||||||| |||
Sbjct: 38093049 aattaattaggggtgggggtctttaaactccattcaagggttcattgtttcatcgatgta
38093108

Query: 7550 ttcacccaaaccctccaaattcaaagagcttgacagaaactgggtgggtggttgtgcatatgt
7609

|||| |||| ||||||||| ||||||||| || | ||||| || ||||||| |||||||||
Sbjct: 38093109 ttcattccaagccctccaacttcaaagacctggtagaaattgatgggtggatgtgcatatgt
38093168

Query: 7610 ttatgtgggtgtgt 7623

|| |||||||||
Sbjct: 38093169 ttgtgtgggtgtgt 38093182

Score = 167 bits (84), Expect = 4e-38
Identities = 84/84 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 37704175 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
37704234

Query: 1703 tcaagtaccatacttctatccaaa 1726
 |||||
Sbjct: 37704235 tcaagtaccatacttctatccaaa 37704258

Score = 161 bits (81), Expect = 3e-36
Identities = 147/169 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 |||||
Sbjct: 15619187 aaaattaattgtcacaaaatttattatctaaatttgcatacacaataaatatacattaga
15619246

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 15619247 aattttagtggttatatatagagacattaattattttataacataattgacctattagctc
15619306

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattc 5285
 || |||||
Sbjct: 15619307 agctggtagagtatcgtgctaattatgcaaaagtcacaagttaattc 15619355

Score = 161 bits (81), Expect = 3e-36
Identities = 102/109 (93%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 |||||
Sbjct: 27941420 aaaattaattgtcacaaaatttattatctaaatttgcatacacaataaatatacattaga
27941361

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||||
Sbjct: 27941360 aattttagtggttatatatagtgacattaattattttataacataattga 27941312

Score = 159 bits (80), Expect = 1e-35
Identities = 161/188 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 8778610 aaaattaattgtcacaaaatttattattgaaatttacatgcacattaaatatacattaga
 8778551

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|| |||| | ||||| || | | |||| ||||| ||||| ||||| ||||| ||||
 Sbjct: 8778550 aaatttactattatataataattattttattttataataattgatctattaattc
 8778491

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296

|||||
 Sbjct: 8778490 agttggtagagcggttgctgtaataacgcgaaagtcataagtttaattcttgttgggccc
 8778431

Query: 5297 attaattt 5304

|||||
 Sbjct: 8778430 attaattt 8778423

Score = 159 bits (80), Expect = 1e-35
 Identities = 197/235 (83%), Gaps = 2/235 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 9844484 aaaattaattgtcacaaaatttattatgtaaatttacatgtgtattaaatatacattaaa
 9844543

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 9844544 aattttaattattatataatagtgacattaattattttataacataattcgtctattaactt
 9844603

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296

| ||| ||||| || ||||| ||||| | ||| ||| |||||
 Sbjct: 9844604 aattgattagagcattgtgctaataactcaaaagtcataaggtttgatttctacttgaact
 9844663

Query: 5297 attaattttaaatattttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351

|||||
 Sbjct: 9844664 attaatTTTaaattaatttGTaaaacatatTTTtg--aaaaaaattataaaaaaa
 9844716

Score = 159 bits (80), Expect = 1e-35
 Identities = 185/220 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
 5176

|||||
 Sbjct: 15619091 aaaattaattgtcacaaaatttattatctaaatttatatgtgcattaaatatattaga
 15619032

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 15619031 aatttttGTgttatatatagtgacattaattattctataacataattgacctatcaactc
 15618972

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggtac
 5296

||||
 Sbjct: 15618971 agttagttagagcatcgtactaataaacttgaaagtcacaggttcaattctcacatgtgcc
 15618912

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttgaaaaa 5336

|
 Sbjct: 15618911 actaatTTTaaattaattcGTaaaacataatttttaaaaaa 15618872

Score = 157 bits (79), Expect = 4e-35
 Identities = 133/151 (88%)
 Strand = Plus / Minus

Query: 7437 caatgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaataat
 7496

|||||
 Sbjct: 22221835 caatgaaaaacacacatgacaactacaaatcattaaataataaaaaatacaataaa
 22221776

Query: 7497 ttgggggaggggtcttcaaaacttgattcaagggttcattgtatcatcgagggtattcaccc
 7556

|||||
 Sbjct: 22221775 ttggggggtatttcttcaaaacttgattcaagggttcattgtctcatcaagggtattcatcc
 22221716

Query: 7557 aaaccctccaaattcaaagagcttgagaaa 7587
 |||||
Sbjct: 22221715 aaaccctccaaattcaaagagcttgtagaaa 22221685

Score = 157 bits (79), Expect = 4e-35
Identities = 118/131 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 |||||
Sbjct: 41455550 aaaattaattgttcataaaaatttattatgttaaatttacatgtgcattaaatatacattaaa
41455491

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 41455490 aattttatttggttatatatagtgacattaattattttataacataattgatctattagttc
41455431

Query: 5237 agttgggttaga 5247
 | |||||
Sbjct: 41455430 aattgggttaga 41455420

Score = 155 bits (78), Expect = 2e-34
Identities = 187/222 (84%), Gaps = 1/222 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 |||||
Sbjct: 10377428 aaaattcatcggttataaaaatttattatctaaatttacatgtatattaaatatacattaga
10377487

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 10377488 aattttattgatatatataacgacattaattattttataacctaatt-ttctattagctc
10377546

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 |||||

Sbjct: 10377547 agttggtagagtgtcatgctaataatcgcaaaagtcttagattcaattcttatatgaatc
10377606

Query: 5297 attaatTTTaaattaatttGTaaaatatatTTTtgaaaaaa 5338
 |||||
Sbjct: 10377607 attaatTTTaaattaattcGTaaaacatatTTTtgaaaaaa 10377648

Score = 155 bits (78), Expect = 2e-34
Identities = 91/94 (96%), Gaps = 1/94 (1%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatcaacttcgccataatgttctatca
1705
 |||||
Sbjct: 42664744 gccttatcccactaggtggg-tcggctacatggatcaacttcgccataatgttctatca
42664686

Query: 1706 agtaccatacttctatccaaaccattaatttcga 1739
 |||||
Sbjct: 42664685 agtaccatacttcgattcaaaccattaatttcga 42664652

Score = 153 bits (77), Expect = 6e-34
Identities = 187/222 (84%), Gaps = 5/222 (2%)
Strand = Plus / Minus

Query: 5131 caaaatttattatctaaatttgcacataaataacattagaaattttagtgttat
5190
 |||||
Sbjct: 8446239 caaaatttattatctaaatttacatgtgaattaaatatattagaaattttagtgttat
8446180

Query: 5191 atTTtagtgaaattaattatTTTataacataattgatgtattagttcagttggttagagca
5250
 || |||
Sbjct: 8446179 atatagc---attaattatTTTataacataattgatgtattagtttagttggttaaagtg
8446123

Query: 5251 ttatgttaataatgtgaaagtcaaaagttcaattcttacttggtcattaattTTTaaatt
5310
 || |||||
Sbjct: 8446122 ttgtgttagcaatgcaaaagtcataaggtttgattcctgcttgggctattaattTTTaaatt
8446063

Query: 5311 aatttGTaaaatatatTTTtgaaaaaaattataaaaaaat 5352

Sbjct: 42514787 agttggtagagcatcgtactaataacctgaaagtcacaagtttgactcttgtttgacc
42514728

```
Query: 5238      gttgggttagagcattatgtaataat 5263
                |||||
Sbjct: 9326794 attgggttagagtattgtgtaataat 9326769
```

Score = 139 bits (70), Expect = 9e-30
 Identities = 187/225 (83%), Gaps = 2/225 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| | ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 10853651 aaaattaattatcacaaaatttattatctaaatttacatgtgtattaaatatatattaaa
 10853710

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || || ||||| ||||| ||||| ||||| |||||
 Sbjct: 10853711 aatttttagtattata--taacgacattaattattttttaacataattgatctattagttt
 10853768

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||| ||||| || || ||||| || || || || || || ||
 Sbjct: 10853769 agtttattagagtgttttactaataacgcgaaaatcacagtttgattcatgcatgagtc
 10853828

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaaat 5341
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 10853829 attaatttttaaattaatttcgtaaaacatatatttttgaaaaaaaaaat 10853873

Score = 139 bits (70), Expect = 9e-30
 Identities = 70/70 (100%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
 1702
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 50305541 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
 50305482

Query: 1703 tcaagtacca 1712
 ||||| |||||
 Sbjct: 50305481 tcaagtacca 50305472

Score = 137 bits (69), Expect = 4e-29
 Identities = 117/133 (87%)

Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

 |||||
Sbjct: 48764362 aaaattaattgtcacaaaatttattatgtaaacttacatgtgcattaaatatacattaga
48764421

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

 |||||
Sbjct: 48764422 aatttttagtggttatatatagcgacattaattattttataatataattgacctattaactc
48764481

Query: 5237 agtttggttagagc 5249

 |||||
Sbjct: 48764482 agtttggttagagc 48764494

Score = 131 bits (66), Expect = 2e-27
Identities = 117/134 (87%)
Strand = Plus / Plus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatta
5174

 |||||
Sbjct: 4429706 aaaaaattaattgtcacaaaatttattatgtaaatttacatgtacgttaaatacatta
4429765

Query: 5175 gaaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
5234

 ||| |||||
Sbjct: 4429766 gaagtttttagtattatatatagcgatattaattattgtataacataactgacttattaac
4429825

Query: 5235 tcagttggttagag 5248

 |||||
Sbjct: 4429826 tcagttggttagag 4429839

Score = 129 bits (65), Expect = 9e-27
Identities = 116/132 (87%), Gaps = 2/132 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 4874495 aaaattaattggttataaaaatttatcatgtaaattt--atgtatattaaatatatattaga
4874552

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236

|||||
Sbjct: 4874553 aatTTtagtgTtatatataacgatattaattatTTTataaatataattgacgtattagttt
4874612

Query: 5237 agttgggtagag 5248
|||||
Sbjct: 4874613 agttgggtagag 4874624

Score = 129 bits (65), Expect = 9e-27
Identities = 134/157 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 15471066 aaaattaattgtcacaaaatttattatgtatatTTtagatgtgtattaaatatacattaaa
15471007

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
|| |||||
Sbjct: 15471006 aaatTTtagtgTtatatatattgacattaattatTTTataacattattaatctattagctc
15470947

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtca 5273
|||||
Sbjct: 15470946 agttgggtagagtattgtgctaataacttgaaagtca 15470910

Score = 129 bits (65), Expect = 9e-27
Identities = 133/153 (86%), Gaps = 2/153 (1%)
Strand = Plus / Plus

Query: 6488 ttgaaattaaaaaatatatatTTtaactgacaagttgacttgaactaaaatatttaaatta
6547
|||||
Sbjct: 38089473 ttgaaattaaaaaa-atatatgtgaccaacaaattgaattgaactaaaatatttaaata
38089531

Query: 6548 caaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataataacaac
 6607

||||| | | ||||| |||||||||||||||||||||||||||| ||| |||
 Sbjct: 38089532 caaaatattt-taaaattatcaacaatagaacaaaatatttaaatttgaaacaatataac
 38089590

Query: 6608 aaaaattttaaaatacaaaacaatatggcataaa 6640

||| |||||||||||||| ||||| |||||
 Sbjct: 38089591 aaattttttaaaatacaaaagaatatgacataaa 38089623

Score = 129 bits (65), Expect = 9e-27
 Identities = 116/133 (87%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatag
 5175

||||||||| | |||||||||||||| |||||| ||| || ||||||| |||||
 Sbjct: 42763766 aaaaattaattatcacaaaatttattatgtaaatttacatgtgcattaaatatatattag
 42763707

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235

||||||||| ||||| || ||| |||||||||||||||||||||||||||| ||||| |
 Sbjct: 42763706 aaatttttagtattatataatgatattaattattttataacataattgacttattatct
 42763647

Query: 5236 cagttgggtagag 5248

|| |||||||||
 Sbjct: 42763646 catttgggtagag 42763634

Score = 127 bits (64), Expect = 3e-26
 Identities = 161/192 (83%), Gaps = 1/192 (0%)
 Strand = Plus / Plus

Query: 5124 attgttacaaaatttattatctaaatttgcattgcacaataaatatacatagaaatttta
 5183

|||| | ||||| |||||| | || || | ||| || ||| ||| |||||||||||||
 Sbjct: 4429867 attgtcacaaaattattatataagtttacatgtgcattaaattataaattagaaatttta
 4429926

Query: 5184 gtgttatatttagtgaaattaattattttataacataattgatgtattagttcagttggt
 5243

||||||||| ||| || |||||||||||||||||| ||||||| ||||| | ||| |
 Sbjct: 4429927 gtgttatatatagcgacattaattattttataatataattgacctattaacttaattgat
 4429986

Query: 5244 tagagcattatgttaataatgtgaaagtcaaaag-ttcaattcttacttggatcattaat
5302

||||||| ||||||||| ||||||||| ||| || || ||||| || |||||||||
Sbjct: 4429987 tagagcatcgtgttaataaacttgaaagtcacaagttttaaatcttgcacatggatcattaat
4430046

Query: 5303 tttaaattaatt 5314

|||||||
Sbjct: 4430047 tttaaattaatt 4430058

Score = 127 bits (64), Expect = 3e-26
Identities = 115/132 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176

||||||| ||||||||| ||||||||| ||||| ||| || ||||||||| |
Sbjct: 27941512 aaaattaattgtcacaaaatttattatgtaaatttacatgtatattgaatatacattaaa
27941571

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| ||||||||| ||| || ||||||||| ||||||| ||||| ||
Sbjct: 27941572 aaatttagtggttatatatagcgacattaattattttataacgtaattgacttattagctc
27941631

Query: 5237 agttggtagag 5248

| |||||||
Sbjct: 27941632 aattggtagag 27941643

Score = 127 bits (64), Expect = 3e-26
Identities = 118/136 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176

||||||| ||||||||| ||||| || ||||| || |||||||||
Sbjct: 48773733 aaaattaattgtcacaaaatttattatgtaaacttacatgtgcattaaatatacattaga
48773792

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||| ||||| || ||||||||| ||||||| ||| | ||

Sbjct: 48773793 gatttttagtggttatatatagcgacattaattatttttataatataattgacctatcaactc
48773852

Query: 5237 agttgggttagagcatt 5252
|||| |||||
Sbjct: 48773853 agtttggttagagcatt 48773868

Score = 125 bits (63), Expect = 1e-25
Identities = 96/107 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 16012858 aaaattaattgtcataaaaatttattatctaaatttacatgtacattaaatatacattaga
16012917

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
|||||
Sbjct: 16012918 aattttattggtgtatataacgaaattaattattttataaaaataatt 16012964

Score = 123 bits (62), Expect = 5e-25
Identities = 131/153 (85%), Gaps = 2/153 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 8805236 aaaattaattgtcacaaaatttattatctaaatttacatgtgtattaaatatata--aga
8805293

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataaattgatgtattagttc
5236
|||||
Sbjct: 8805294 aattttattggttatataaacaacattaattattttataacataaattgatatatattagctt
8805353

Query: 5237 agttgggttagagcattatgttaataatgtgaaa 5269
|||||
Sbjct: 8805354 agttgggttagagaatcatgctaataatatgaaa 8805386

Score = 123 bits (62), Expect = 5e-25

Identities = 126/146 (86%), Gaps = 1/146 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 9844251 aaaattaattgtcacaaaatttattatataaaacttacatgtacattaaatataaaatagg
 9844192

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 9844191 aatttt-agtggttatatatagcgacattaattattttataatataaattggcctattagttc
 9844133

Query: 5237 agttggtagagcattatgttaataa 5262
 |||||
 Sbjct: 9844132 agttgattagagcattgtgctaataa 9844107

Score = 121 bits (61), Expect = 2e-24
 Identities = 175/213 (82%)
 Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
 5177
 |||||
 Sbjct: 8778739 aaattaattgtcaaaaaacttattattttaaatttacatgcgtgttaaataacgtagaa
 8778798

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
 5237
 |||||
 Sbjct: 8778799 attttattggttatataatacaacattatttattttataacataattagcctattagctcg
 8778858

Query: 5238 gttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggaatca
 5297
 |||||
 Sbjct: 8778859 gttggtagagcatcatgctaacaatgcgaaagttacaagtttaactcttggttaggccca
 8778918

Query: 5298 ttaatttttaaattaatttgtaaaatatattttt 5330
 |||||
 Sbjct: 8778919 ttaatttttaaattaatttggtaaaacatatattttt 8778951

Score = 119 bits (60), Expect = 9e-24
 Identities = 181/221 (81%), Gaps = 4/221 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||| | ||| ||||| ||||| ||| || ||||| |||||
 Sbjct: 7914212 aaaattaattttcacataatttattatttaaatttatatgtgcattaaatatacattaga
 7914271

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| ||||| ||||| ||||| ||||| ||| ||||| |||||
 Sbjct: 7914272 aatttttagtattatatatagtgacattaattatttcataaaataattggtatattagttc
 7914331

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 | | |||| | |||| || || ||||| || | || |||| || | |
 Sbjct: 7914332 a----gatagagagttatgctaagaatatgaaagttacatatctgattcctacattggtt
 7914387

Query: 5297 attaatTTTTaaattaatttGTaaaatatatttttgaaaaaa 5337
 ||||| |||| | ||||| |||||
 Sbjct: 7914388 attaatTTTTaaataattcatataatatatttttgaaaaaa 7914428

Score = 117 bits (59), Expect = 3e-23
 Identities = 95/107 (88%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||| |||| | ||||| ||||| ||||| ||| |||| | ||||| |||||
 Sbjct: 3314134 aaaattaattgtcactaaatttattatctaaatttacatacacatcaaatacattaga
 3314075

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 ||||| ||||| || || | ||||| ||||| |||||
 Sbjct: 3314074 aatttttagtggtacataaacgtcattaattattttataacataatt 3314028

Score = 117 bits (59), Expect = 3e-23
 Identities = 156/187 (83%), Gaps = 1/187 (0%)
 Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacatagaa
 5177
 |||
 Sbjct: 8764811 aaattaattgtcacaaaattcattatttaaattt-catgtgcattaaatatatagaa
 8764753

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
 5237
 |
 Sbjct: 8764752 agtttagtggttatgtatagtaacattatttattttataacataattaacatttagttta
 8764693

Query: 5238 gttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatca
 5297
 |||
 Sbjct: 8764692 gttggtagagtatagtgttaataaacttaaaagtcacaaattcgattattgcttggatga
 8764633

Query: 5298 ttaattt 5304
 |||
 Sbjct: 8764632 ttaattt 8764626

Score = 117 bits (59), Expect = 3e-23
 Identities = 113/131 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacatagaa
 5176
 |||
 Sbjct: 17530693 aaaattaattgtcacaaaatttattatttaaatttacatgtgcattaaatatagaa
 17530634

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||
 Sbjct: 17530633 aatttttagtggttatataacaacattatttattttataatagaattgatctattagctc
 17530574

Query: 5237 agttggtaga 5247
 |
 Sbjct: 17530573 aattggtaga 17530563

Score = 117 bits (59), Expect = 3e-23
 Identities = 137/163 (84%)

Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
6737

|||||
Sbjct: 34361202 atgcgacacatgaaacattcttttgattgaccggttctcagatatccatttcgatttct
34361143

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797

||||
Sbjct: 34361142 atacaagaggagacatgatgacctttagaatttcttttcatttgtgggtcgaggcagatt
34361083

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatt 6840

|||||
Sbjct: 34361082 cttggctcatgacatggtggccaatatgctttgttgcacaatt 34361040

Score = 115 bits (58), Expect = 1e-22
Identities = 88/98 (89%)
Strand = Plus / Minus

Query: 5119 aattaattgttacaaaatttattatctaaatttgcacataaatatacattagaaa
5178

|||||
Sbjct: 4429610 aattaattgttacaaaatttattatataaaatttatatgtgcattaaacatacattagaaa
4429551

Query: 5179 ttttagtggttatatttagtgaaattaattattttataa 5216

|||||
Sbjct: 4429550 ttttagtggttatatatagcgagattaattattttataa 4429513

Score = 115 bits (58), Expect = 1e-22
Identities = 175/214 (81%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 8045021 aaaattaattgttacaaaatttattatgtaaaattatatatgtattaaatatacattaga
8044962

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 8044961 aatttttagtggttatatataacgacgttaattatTTTTtaataattgacctattagctc
8044902

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 8044901 aattgggttaaagttattgtgctaataacatgaaagtcacatatTTtgagacttgcattgggtc
8044842

Query: 5297 attaatTTTaaattaatttGTaaaatatTTTT 5330
|||||
Sbjct: 8044841 attaatTTTaaattagtttGaaaaacatatTTTT 8044808

Score = 115 bits (58), Expect = 1e-22
Identities = 124/146 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

|||||
Sbjct: 8239318 aaaattaattgttacaaaatttattatgttaaatttacatatTTtaataatatattaga
8239259

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
5236

|||||
Sbjct: 8239258 aatttttagtggttatatataacgatattaattatTTTtagcataaatttattagttt
8239199

Query: 5237 agttgggttagagcattatgttaataa 5262
|||
Sbjct: 8239198 aattagtttagagtgtcatgttaataa 8239173

Score = 115 bits (58), Expect = 1e-22
Identities = 163/198 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

|||||
Sbjct: 48843284 aaaattaattatcaaaaaatttattatTTTaaatttacatgtgcattaaatatattaga
48843225

Sbjct: 8920531 aaaaattaattatcacaaaatttattatgtaaatttacatgtgcattaaatatacattag
8920472

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattg 5224
|||||
Sbjct: 8920471 aaatTTtagtattatatataataacattaattatTTTataatataattg 8920423

Score = 113 bits (57), Expect = 5e-22
Identities = 156/187 (83%), Gaps = 14/187 (7%)
Strand = Plus / Minus

Query: 4839 aaaaagagattttaataattaatagctaaagaaatccaaaagtttttc-----ttttatt
4892
|||||
Sbjct: 12569334 aaaaaaagattttaataattaatagctaaagaaattcaaaaagtttttcttttatttttatt
12569275

Query: 4893 ---tttattttgttcctattcaattctaattttgtcatttttttctactgtctctcgact
4949
|||||
Sbjct: 12569274 atctttattttcttcctattcaattttaattctgtc-ttcttttctccgtgt----tata
12569220

Query: 4950 tctctgtcttctcacctgtttcttcagtttacttgattattatTTTactttgatacatta
5009
|||||
Sbjct: 12569219 tctctgtcttctaatatgttttttagtttatttgattattatTTTactttgatacatta
12569160

Query: 5010 gccata 5016
|||||
Sbjct: 12569159 gccata 12569153

Score = 113 bits (57), Expect = 5e-22
Identities = 180/219 (82%), Gaps = 4/219 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
|||||
Sbjct: 12928272 aaaattaattgttacaaaatttattatgtaaatttatataattcattaaatatatataaa
12928213

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
|| ||| | ||||| | ||| ||||| ||||| |||||

Score = 111 bits (56), Expect = 2e-21

Identities = 137/162 (84%), Gaps = 9/162 (5%)
Strand = Plus / Plus

Query: 6313 ttattaattgtctatatttgtgttctgtttaaattgaaaacaatattatttttcatatgt
6372

|||||
Sbjct: 3935074 ttattaattgtctatatttatgctttgcttaaactaaaaataatattattttgcctatgt
3935133

Query: 6373 tgttaattcttaatttcttatgcatattttatgttttatcatttttt-aagagttgaaat
6431

|| ||||||| ||| |||||||
Sbjct: 3935134 tg-----ttaattt-ttaaaaaatattttatgttttatcattttttgaacagttgaaat
3935185

Query: 6432 cctttgtatttttattttatttgattattataatacataatt 6473

|||||
Sbjct: 3935186 cctttgtatttttgttttatttgattactaaaatacataatt 3935227

Score = 111 bits (56), Expect = 2e-21
Identities = 95/108 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 6164550 aaaattaattgtaacaaaatttattatctaaatttacatgcatattaatacattaaa
6164491

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224

|||||
Sbjct: 6164490 aatttttagtggttatataaacgatattaattattttataaaataattg 6164443

Score = 111 bits (56), Expect = 2e-21
Identities = 146/176 (82%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177

|||||
Sbjct: 6296900 aaattaattgtcacagacttatttttaatttacatgcgcattaaatacattagaa
6296841

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
5237

||||| ||||||| || ||| ||||||||||||||| ||||| ||||||| |||
Sbjct: 6296840 atttattggttatataaacaccattatttattttataacatgattgacctattagctca
6296781

Query: 5238 gttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttgg 5293

||||||||| || ||||||| | ||||||| ||||||| ||||||| |||||
Sbjct: 6296780 gttggtagaatgttgcatthaataacgcgaaagtcacaagttcgattcttgcttgg
6296725

Score = 111 bits (56), Expect = 2e-21
Identities = 113/132 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

||||||||||||||||||||||||||||||||| ||| || ||||||| |||||||
Sbjct: 7914013 aaaattaattggttacaaaatttattatctaaatataaatgtgcattgaaatatattaga
7913954

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||||| |||||| | || ||||||||||||||||||||||||| ||||||| |||
Sbjct: 7913953 aatttttagtattatatacaacgatattaattattttataacataattgggtctattaactc
7913894

Query: 5237 agttggtagag 5248

||||| |||||||
Sbjct: 7913893 agttgattagag 7913882

Score = 111 bits (56), Expect = 2e-21
Identities = 113/132 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

||||||||| | |||||| ||| |||||| | ||| |||| || |||||||||||||||
Sbjct: 15952720 aaaattaattttcacaaattttgttatctgtatttacatgtgcattcaaatatacattaga
15952661

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||| ||||||| ||| || ||||||||||||||||||||||||| ||||||| |||

Sbjct: 15952660 aattttattgttatatatagcgacattaattattttataacataattgggtctattaggtc
15952601

Query: 5237 agttgggtagag 5248
| |||||
Sbjct: 15952600 aattgggtagag 15952589

Score = 109 bits (55), Expect = 8e-21
Identities = 109/127 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 1154492 aaaattaattgtcataaaaatttattatgtaaatttatattatataaataacattaaa
1154433

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|| |||
Sbjct: 1154432 aaatttaattgttatatataaggacattaattattttataacataattaatttattagttc
1154373

Query: 5237 agttggg 5243
|||||
Sbjct: 1154372 agttggg 1154366

Score = 109 bits (55), Expect = 8e-21
Identities = 94/107 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 15471295 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatattaga
15471354

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
| |||||
Sbjct: 15471355 agtttttagtccttatatatatcgacattaattattttataacataatt 15471401

Score = 109 bits (55), Expect = 8e-21

Identities = 130/155 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||||||||| | |||||||||||| |||||| | || | ||||||||||||
 Sbjct: 35121083 aaaattaattgtcaaaaaatttattatttaaatttacatgcgcattaaatatacattaga
 35121024

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||||||||| | || | |||| | |||||||||| | |||| | || | ||
 Sbjct: 35121023 aatttttagtggttatgtatatcaacattatttattttataatgtaattgactcattaactc
 35120964

Query: 5237 agttggtagagcattatggttaataatgtgaaagt 5271
 |||||||||||| | | |||| | |||||
 Sbjct: 35120963 agttggtagagcgttggtgctaataacttgaaagt 35120929

Score = 109 bits (55), Expect = 8e-21
 Identities = 94/107 (87%)
 Strand = Plus / Plus

Query: 6561 aaattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaaaattttaaaa
 6620
 ||||| | |||| | |||||||||| | |||||| | || | |||| | || | ||
 Sbjct: 49401198 aaattaccaacaacagaacaaaatatataaatttgaattaatataacaaaaattttacaaa
 49401257

Query: 6621 tacaaacaatatggcataaaattaatgttggtggcctgagcctacac 6667
 |||||||||||| | || | | |||||||||| | |||||||
 Sbjct: 49401258 tacaaacaatatgacatacatcattcaatgttggtggcctgagcctacac 49401304

Score = 107 bits (54), Expect = 3e-20
 Identities = 96/110 (87%)
 Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcacataaatatacattagaaatttttagtggttata
 5191
 |||||||||||| | |||| | || | || |||||| | || | || || | |||||
 Sbjct: 8001687 aaaatttattatttaaatttacatgtgcattaaatatattaaaatttttattgttata
 8001628

Query: 5192 tttagtgaaattaattattttataacataattgatgtattagttcagttg 5241

Sbjct: 16942815 agttggttaaagtattgtgctaataatgcaaaagtcacaggtttgatatctgcatggact
16942756

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 38863471 aaaattaattggtcacaaaatttattatctaaatttacatgcgcattaaatatacattaga
 38863530

Query: 5177 aatttttagt 5185
 |||||
 Sbjct: 38863531 aatttttagt 38863539

Score = 105 bits (53), Expect = 1e-19
 Identities = 95/109 (87%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 48758249 aaaattaatcggtcacaaaatttattatgtaaacttatatgtttattaaatatacattaga
 48758308

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||||
 Sbjct: 48758309 aattgtagtggttatatatagcgacattaattattttataacataattga 48758357

Score = 103 bits (52), Expect = 5e-19
 Identities = 121/144 (84%)
 Strand = Plus / Minus

Query: 5185 tggttatatttagtgaaattaattattttataacataattgatgtattagttcagttgggt
 5244
 |||||
 Sbjct: 10377308 tggtacatatagtgacggttaattattttataacataattaatctattaattcagttagtt
 10377249

Query: 5245 agagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatcattaattt
 5304
 |||||
 Sbjct: 10377248 agagtgtcgtggttaataacgcaaaagtcacaagtttaatttttgcataagggttattaattt
 10377189

Query: 5305 taaattaatttgtaaaatatattt 5328
 |||||
 Sbjct: 10377188 taaattaatttgtaaaatatattt 10377165

Score = 103 bits (52), Expect = 5e-19
Identities = 100/116 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||||||||||||||||| ||| || | ||||||||||||||| |
Sbjct: 11068025 aaaattaattggttacaaaatttattatataaaacttatatgtgtattaaatatacattaaa
11068084

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
 || |||||| | ||||| ||| || | ||||||||||||||| ||||||| |||||
Sbjct: 11068085 aaatttagtattatatatagcgatattaattattttataatataattgatctatta
11068140

Score = 103 bits (52), Expect = 5e-19
Identities = 240/302 (79%), Gaps = 3/302 (0%)
Strand = Plus / Minus

Query: 6699 tttgggttacctgattcttggatatccattttggtgtgtatacgagaggagacatgacaa
6758
 |||||| | || | ||||| ||||||||||| ||||| | ||||||| ||| || |
Sbjct: 24152355 tttgggtgaccgattctcgatatccatttcggtgtggaaacgagaggaaacaaaacga
24152296

Query: 6759 cctttagaatttcttttctttttgggttggggcaaattcttggcttgtgacatggtgac
6818
 || ||||||||||||||| | | ||||| ||| || |||||| |||| | ||||| |
Sbjct: 24152295 cccttagaatttcttttcttgtatgggtaaaggcagatgattggctcgtgatatggtggc
24152236

Query: 6819 caacatgcttcattgcacaatttcccaagtaatcatttgtacatggttatagatacttttc
6878
 | | |||||| | || | ||||| |||| |||| | |||| | ||| ||||| |
Sbjct: 24152235 ccatatgcttcgttacacaattctccaaacaatcctatgtatatgttggagacactttcc
24152176

Query: 6879 agcgtatacacaagatgtatgtagttcctatactcatgggtgagcatgcttataaa---ca
6935
 | |||||| | ||||||||||| | || ||||||||||||||| ||| ||
Sbjct: 24152175 aatgtatacataggatgtatgtagttattgtaatcatgggtgagcatgcttataaaacagca
24152116

Score = 101 bits (51), Expect = 2e-18
Identities = 99/115 (86%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaataacattagaa 5177
||||| | ||||| | ||||| ||| ||||| |
Sbjct: 7565688 aaattaattgtcataaaaatttattatataaatttatatgtgtaataaataacattaaaa 7565629

Query: 5178 attttagtggttatattttagtgaaattaattattttataacataattgatgtatta 5232
||||| | ||||| ||| |||| | |||| | ||||| |||||
Sbjct: 7565628 attttagtggttatatatagtgacatttattagtttaataatataattgatctatta 7565574

Score = 101 bits (51), Expect = 2e-18
Identities = 298/375 (79%), Gaps = 9/375 (2%)
Strand = Plus / Minus

Query: 6872 acttttcagcgtatacacagaatgtatgtagttc---ctatactcatgggtgagcatgctt 6928
|||| | ||||| | ||||| ||| || ||||| |
Sbjct: 36818584 actttccaacgtatacataggatgtatgtagttgtttctgtattcatgggtgagcatgctt 36818525

Query: 6929 ataaacaaca---acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcaca 6985
| | | | | ||||| | ||||| | ||||| ||||| |||||
Sbjct: 36818524 acaagcagcagcaacatgagaataaggcatgtgtaatttttggaattttccacagtcaca 36818465

Query: 6986 ctacctttcatctagcttgaccatgaaatttctcactagttgaatctctctctccagtta 7045
| ||||| ||||| |||| | ||||| | ||||| ||||| |||||
Sbjct: 36818464 ccacctttcatctagcctgactgtgaaatttc-cagcggacgaaac-ctctctcggggtt 36818407

Query: 7046 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag 7105
||| ||||| |||| | |||| | |||| | ||||| ||||| |||||
Sbjct: 36818406 attatctcctagaccaagaaccgtgtgtcacatcgatcaaactcaagaacaatctgagtt 36818347

Query: 7106 tttgcctttttctgtatgtctttcatagccttggttaataacttttgataaaacttcacca 7165
||||||| | ||| |||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 36818346 tttgcctttctttgtgcatcttcgattgccttggttagtacttgcatataaaacttgacca 36818287

Query: 7166 aatgtaatcactcttg-cgacttctctccccctttgggtgaacaatgcattacacctagt 7224

|||| || || | ||| |||||||||||||| |||| |||||||||||||||||||||
 Sbjct: 36818286 gatgcaagcattggtggcgacttctctccctcttttgttgaacaatgcattacaccttag
 36818227

Query: 7225 ataggttgattttac 7239
 ||| |||||||||||
 Sbjct: 36818226 atatgttgattttac 36818212

Score = 99.6 bits (50), Expect = 8e-18
 Identities = 68/74 (91%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||| |||||||||||||| |||||| |||| | ||||||| |||||
 Sbjct: 2666091 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatataatattaga
 2666032

Query: 5177 aatttttagtggttat 5190
 |||||||||||
 Sbjct: 2666031 aatttttagtggttat 2666018

Score = 99.6 bits (50), Expect = 8e-18
 Identities = 114/134 (85%), Gaps = 1/134 (0%)
 Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataaaatatacattagaaatttttagtggtta
 5189
 ||||||||||| |||||| ||| ||| ||||||| |||||||||||||||||
 Sbjct: 10852383 acaaaatttattatgttaaatttacatatacattaaatataaattagaaatttttagtggtta
 10852324

Query: 5190 tatttagtgaaattaattattttataacataattgatgtattagttcagttgggttagagc
 5249
 ||| ||||| | || ||| |||||||||||| || ||||| | ||||||| |||
 Sbjct: 10852323 tatatagtgaactattta-tttataacataatgtatctattagcttagttgggttagagt
 10852265

Query: 5250 attatgttaataat 5263
 ||| | |||||||
 Sbjct: 10852264 attttattaataat 10852251

Score = 99.6 bits (50), Expect = 8e-18
Identities = 92/106 (86%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaataacattagaa
5177
 ||||| ||| ||||| ||||| ||| ||| ||||| |||||
Sbjct: 21955637 aaattaattgtcacataatttattatgtaaatttacatgtacattaaatatattagaa
21955578

Query: 5178 attttagtggttatatttagtgaaattaatttttataacataatt 5223
 | |||| | ||||| || | | ||||| ||||| |||||
Sbjct: 21955577 aatttattattatatataataatattaatttttataacataatt 21955532

Score = 97.6 bits (49), Expect = 3e-17
Identities = 76/85 (89%)
Strand = Plus / Plus

Query: 6580 aaaatatttaaatttgaaataataacaacaaaaattttaaaatacaacaatatggcataa
6639
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3935270 aaaatatttaaattacaaataatacaacacaaaattttaaaatacaacaatatggcataa
3935329

Query: 6640 aattaatggttggtggcctgagccta 6664
 | |||| || |||| | |||||
Sbjct: 3935330 acttaacgtagttgacttgagccta 3935354

Score = 97.6 bits (49), Expect = 3e-17
Identities = 121/145 (83%)
Strand = Plus / Minus

Query: 5119 aattaattgttacaaaatttattatctaaatttgcacataaataacattagaaa
5178
 ||||| ||| ||||| ||||| ||||| ||| ||| ||||| |||||
Sbjct: 13202376 aattaattgtcaccaaatttattatttaaatttacatgtgcattaaataacattagaaa
13202317

Query: 5179 ttttagtggttatatttagtgaaattaatttttataacataattgatgtattagttcag
5238
 |||| | ||||| || | | ||| ||||| ||||| ||||| ||||| |||
Sbjct: 13202316 ttttaattattatatataataatattttttattttataacataattggtctattaactcaa
13202257

Query: 5239 ttggttagagcattatgttaataat 5263
 || |||| ||||| || |||||
Sbjct: 13202256 ttagttaaagcattgtgctaataat 13202232

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 177/219 (80%), Gaps = 3/219 (1%)
 Strand = Plus / Plus

Query: 5133 aaatttattatctaaatttgcattgcacaataaatatacattagaaatttttagtggttatat
 5192
 |||||
 Sbjct: 19028348 aaatttattatttaaatttacatgtgcattaaatatacataagaaattttaatggttatgt
 19028407

Query: 5193 ttagtgaaattaattatattttataacataattgatgtatttagttcagttgggttagagcatt
 5252
 || |||||
 Sbjct: 19028408 ataacaacattattttattttacaatgtaattggcttatttagttcaattgggttagaatgtt
 19028467

Query: 5253 atgttaataatgtgaaagtcaaaagttcaattccttacttggatcattaatttttaaattaa
 5312
 |||||
 Sbjct: 19028468 gagctaataacttgaaagtcattaggttcaagtccttacttgggttaattaatttttaaattaa
 19028527

Query: 5313 tttgtaaaatatatttttgaaaaaaaattataaaaaaa 5351
 || || |||||
 Sbjct: 19028528 ttcgtcataaatattt---aaaaaaaattataaaaaaa 19028563

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 178/221 (80%)
 Strand = Plus / Plus

Query: 7509 tcttcaaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaa
 7568
 |||||
 Sbjct: 21017990 tcttcaaaaactggattcacgggttcattgtctcatcgagggtattcatccaaaccctccaaa
 21018049

Query: 7569 ttcaaagagcttgcagaaaactgggtgggtgtgtgcatatgtttatgtgggtgtgtctacg
 7628
 || |||||
 Sbjct: 21018050 ttggaagagatgacagaaattagtggtggatgtgcatatgtttgtatcggcgtgtgtgtg
 21018109

Query: 7629 gtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaataatagaaaacata
 7688
 ||| ||| |||||

Query: 5237 agttggtta 5245

Sbjct: 5570313 gtttgtaagaacggtgtgctaataatgcgaaagtcataggtttaactcttgcttggacca
5570372

Query: 5298 ttaattt 5304
 |||||
 Sbjct: 5570373 ttaattt 5570379

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 110/131 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 7953135 aaaattaattattacaaaatttattatataaaacttatatgtgtattaaatatacattaga
 7953076

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 7953075 catttttagtggttatataacgatattaattattttttaataataattaatttattaattc
 7953016

Query: 5237 agttgggttaga 5247
 | ||| |||||
 Sbjct: 7953015 aattgattaga 7953005

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 110/131 (83%)
 Strand = Plus / Plus

Query: 5119 aattaattgttacaaaatttattatctaaatttgcacataaatatacattagaaa
 5178
 |||||
 Sbjct: 11689285 aattaattattacaaaatttattatataaaatttatatgtgcattaaatatatataaaaa
 11689344

Query: 5179 ttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcag
 5238
 |||||
 Sbjct: 11689345 ttttagtggtcatatataacgatattaattattttaaaataataatctattaatttaa
 11689404

Query: 5239 ttgggttagagc 5249
 |||||
 Sbjct: 11689405 ttgggttagagc 11689415

Score = 93.7 bits (47), Expect = 5e-16
Identities = 69/75 (92%), Gaps = 1/75 (1%)
Strand = Plus / Minus

Query: 5275 aagttcaattcttacttggatcattaattttaaattaatttgtaaaatatatTTTT-gaa
5333
|||||
Sbjct: 18563348 aagttcaatccttacttggactattaattttaaattaatttgtaaaatatatTTTTggaa
18563289

Query: 5334 aaaaaaattataaaa 5348
|||||
Sbjct: 18563288 aaaaaaattaaaaa 18563274

Score = 93.7 bits (47), Expect = 5e-16
Identities = 83/95 (87%)
Strand = Plus / Plus

Query: 6580 aaaatatTTaaatttgaaataatacaacaaaaattTTTaaatacaaacatatggcataa
6639
|||||
Sbjct: 21010970 aaaatatTTaaatttgaaataatacgacaaaattataaaaaatacaagaatatggcataa
21011029

Query: 6640 aattaatgttggttgacctgagcctacacaatgggg 6674
| |||||
Sbjct: 21011030 cttcaatgtttttggcttgagcctatacactgggg 21011064

Score = 91.7 bits (46), Expect = 2e-15
Identities = 70/78 (89%)
Strand = Plus / Minus

Query: 5014 ataattTTaataaattatTTtatgaataaaaaagggttttattcttaaatTTgcttgag
5073
|||||
Sbjct: 12568825 ataattTTaataaattatTTtatgagtaaaaaagtatcattcttaaatTTgctttag
12568766

Query: 5074 ccctctcaagtccttgag 5091
|||||
Sbjct: 12568765 gtctctcaagtccttgag 12568748

Query: 5319 aaatatatttttgaaaaaaaaattataaaaaaat 5352

Sbjct: 16012567 aaccatacatttgaaaaaaaaatttaaaaaaat 16012534

Score = 91.7 bits (46), Expect = 2e-15
Identities = 234/296 (79%), Gaps = 3/296 (1%)
Strand = Plus / Minus

Query: 6681 cgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtata
6740

|||||
Sbjct: 27373630 cgacacatggaacattgctttagttgactcgattctcagacatccatttcgatgtggata
27373571

Query: 6741 cgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattctt
6800

|
Sbjct: 27373570 caagaggagacaagacggtccttagaatttcttttcttcttgggtcggggcggattatt
27373511

Query: 6801 ggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtac
6860

||||
Sbjct: 27373510 ggctcatgacacagtgcccaatatgctttgttgtgcaattctccaaataatttttgtat
27373451

Query: 6861 atgttatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgggtga
6920

|
Sbjct: 27373450 acgttggagacattttccaacgtaaacataagatgtttgtagttcctatactcatggtaa
27373391

Query: 6921 gcatgctt---ataaacaacaacatgagaacaaaacatgtgcattttttgaaattt 6973

|||||
Sbjct: 27373390 gcatgctttcaagaagcaacatcacgagaacaaagcatgtgcaatttttggaaattt
27373335

Score = 91.7 bits (46), Expect = 2e-15
Identities = 52/54 (96%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggtacatggatcaacttccgccataatgtt 1699

|||||
Sbjct: 37116733 gccttatcccactaggtggggtagactacatggatcaacttccgccataatgtt
37116680

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 111/133 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatacacaataaatatacattaga
 5176
 |||||
 Sbjct: 7565854 aaaattaattgtcacaaaatttattatgttaaattcacatatgcattaaatatattata
 7565913

Query: 5177 aatTTTTagtggttatatTTtagtgaaattaattatTTTataacataaTTgatgtattagttc
 5236
 |||||
 Sbjct: 7565914 aatTTTTagtggtgtgtataacgacattaactatTTTataaatatgattgatctattagttc
 7565973

Query: 5237 agttgggtagagc 5249
 ||||
 Sbjct: 7565974 agttaattagagc 7565986

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 134/165 (81%), Gaps = 14/165 (8%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatacacaataaatatacattaga
 5176
 |||||
 Sbjct: 8446455 aaaattaattgtcacaaaatttattatctaaattt-----acattagatatatacattaaa
 8446508

Query: 5177 aatTTTTagtggttatatTTtagtgaaattaattatTTTataacataaTTgatgtattagttc
 5236
 ||
 Sbjct: 8446509 aaatttaattggttatataacaacattaattatTTTataaatataaTTgatataattaactc
 8446568

Query: 5237 agttgggtagagcat-----tatgttaataatgtgaaagtca 5273
 |||||
 Sbjct: 8446569 agttgattagaacatcggtgctaataatgttaataatgtgaaagtca 8446613

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 135/165 (81%)
 Strand = Plus / Minus

Query: 7592 tgggtggttggtgcatatgtttatgtgggtgtgtctacggtgataacataaaaactcaaggca
7651

|||||
Sbjct: 22216877 tgggtggttggtgcacatatgttgtaagtgtgtttgcagtggtaatatataactcaaggca
22216818

Query: 7652 tgtgaagttgaagagtttcccaaatatagaaaacatagtaattatttcctcatcatcttg
7711

|||||
Sbjct: 22216817 tgtgaggttagagagttgttttaatatagaaaacatagtaattatgtcatcatcatcttg
22216758

Query: 7712 cagcatacatgcctgtactgaaaacaatcaccaacaaatgatac 7756
|| |
Sbjct: 22216757 caatacgcacatgcctgtaccagccacaatcaccaacaaatgatac 22216713

Score = 87.7 bits (44), Expect = 3e-14
Identities = 66/72 (91%), Gaps = 1/72 (1%)
Strand = Plus / Plus

Query: 5282 attcttacttggatcattaatttttaaattaatttgtaaaatatatttttgaa-aaaaaaa
5340

||||
Sbjct: 2784122 attcctacttggataattaatttttaaattaattcgtaaaacatatattttgaagaaaaaaa
2784181

Query: 5341 ttataaaaaaat 5352
|||
Sbjct: 2784182 ttaaaaaaaat 2784193

Score = 87.7 bits (44), Expect = 3e-14
Identities = 113/136 (83%)
Strand = Plus / Minus

Query: 5138 tattatctaaatttgcatgcacaataaatatacattagaaatttttagtggttatatttagt
5197

|||||
Sbjct: 8315363 tattattttaaatttacatgcgcattaaatatacataaaatatatttagtggttatgtataac
8315304

Query: 5198 gaaattaattattttataacataattgatgtatttagttcagttgggttagagcattatggt
5257

| |||||

Query: 6684 cacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatacga
6743

Sbjct: 15703998 gagggagacaagatgacctttagaatttcttattcttctttggatcgtggaaaattcttggc
15703939

Sbjct: 15703938 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
15703879 tcctaatatggtgaccaatacgcttcattgtgcaattctccaacaatcctctatgtatg

Sbjct: 15703878 ttggagacac-tttcaatgtatgcacaagatgtatgtagttcatgtattcatgatgagca
15703820

Sbjct: 15703819 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
15703760 tgcttaaacgtagtaataaacatcagaataaggcatgtgcactttttaagaattttccaca

```
Query: 6980      gtcacactacctttcatctagcttgaccatgaaatttc 7017
             ||||| ||||||||| ||||||||| |||||||||
Sbjct: 15703759 ctcacatcacctttcatccagcttgaccgtgaaatttc 15703722
```

Sbjct: 22226354 cttcattgcacaattttccaacaatcatttgtatatgtcggagacattttccaacatat
22226295

Sbjct: 22226294 acatagaatgtatgtagtcttctgtactcatggcaagcatgcttataagtagcaacaacat
22226235

Query: 6943 gagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagct
7002

||||||| ||||||| ||||||| ||||| ||||||| | ||||| ||||| |||
Sbjct: 22226234 gagaacatggcatgtgcaatttttggaaatttactacagtcacccacacctatcatccagcc
22226175

Query: 7003 tgaccatgaaattt 7016

||||| |||||||
Sbjct: 22226174 tgaccgtgaaattt 22226161

Score = 85.7 bits (43), Expect = 1e-13
Identities = 91/107 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176

||||||| | ||||||||| ||||||| ||||| | | ||||||||| |
Sbjct: 1251621 aaaattaattatcacaaaatttattatttaaatttacatgtatatataaatatacataggaa
1251680

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223

||| ||| | |||||| ||| || ||||||||| ||||||| |||||
Sbjct: 1251681 aatcttattattatatatagcgacattaattattttataacaaaatt 1251727

Score = 85.7 bits (43), Expect = 1e-13
Identities = 62/67 (92%), Gaps = 1/67 (1%)
Strand = Plus / Plus

Query: 6485 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa
6544

||||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 3935223 taattgaaattaaaaatacatatttaaccaacaagttga-atgaactaaaatattttaa
3935281

Query: 6545 ttacaaa 6551

|||||||
Sbjct: 3935282 ttacaaa 3935288

Score = 85.7 bits (43), Expect = 1e-13
Identities = 98/115 (85%), Gaps = 1/115 (0%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaattttagtggtta
5189

|||||
Sbjct: 4018189 acaaaatttattatgttaaatttacatttacattaaatataaaattagaaattttagtatta
4018130

Query: 5190 tatttagtgaaattaattattttataacataattgatgtattagttcagttgggtt 5244

|||||
Sbjct: 4018129 tatatagcgaaactattta-tttattacataaatatgtttattagttcagttgggtt
4018076

Score = 85.7 bits (43), Expect = 1e-13
Identities = 127/155 (81%)
Strand = Plus / Plus

Query: 5119 aattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaaa
5178

|||||
Sbjct: 13202509 aattaattgtcaccaaatttattatttaaacttacatacacgttaaataatatattaaaaat
13202568

Query: 5179 ttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcag
5238

|||||
Sbjct: 13202569 ttttagtgctatatatagtaacattatttattttataataataatttattaacttaa
13202628

Query: 5239 ttggttagagcattatgttaataatgtgaaagtca 5273

|||||
Sbjct: 13202629 ttggttaaagcatcgtgctaataacgtgaaagtca 13202663

Score = 85.7 bits (43), Expect = 1e-13
Identities = 173/215 (80%), Gaps = 1/215 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

|||||
Sbjct: 20901361 aaaattaattattataaaaatttattatgttaaacttatatatgtattaaataatatattaga
20901420

Query: 5177 aatttttagtggttatatttagtgaaattaatta-ttttataacataattgatgtattagtt
5235

|||||
Sbjct: 20901421 aatttttagtggttatattaagtacattaattatTTTTTTaatataattgatttattagat
20901480

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295

|||||
Sbjct: 20901481 taattgggttaaagtgttggttaatatcatgaaagtcataaattcgagacctacatgaat
20901540

Query: 5296 cathtaatttttaaattaatttgtaaaatatatTTTT 5330

|||||
Sbjct: 20901541 tattatTTTTtagattatttcgtaaaacatatTTTT 20901575

Score = 85.7 bits (43), Expect = 1e-13
Identities = 92/107 (85%), Gaps = 1/107 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 21955854 aaaattaattgtcataaaaatttattatgtaaatttacatgtgcattgaatatacattaga
21955913

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTtataacataatt 5223

|||||
Sbjct: 21955914 aatttttagtatta-atataataacatcaattatTTTtataacataatt 21955959

Score = 85.7 bits (43), Expect = 1e-13
Identities = 91/107 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 30311695 aaaattaattggttacagaatttattatgtaaacttatatgtatattaaatatatagtaaa
30311636

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTtataacataatt 5223

|||||
Sbjct: 30311635 aatttttagtggttatatatcgagatattaattatTTTtataagataatt 30311589

Score = 85.7 bits (43), Expect = 1e-13
Identities = 109/131 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 ||||| || |||||||||||||||| ||| || | ||||||||| |||
Sbjct: 30311842 aaaattagtttttacaaaatttattatgttaaacttatatatatttattaaatatacactaga
30311901

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 | ||||||| ||| ||| | |||||||||||||||||||| || ||||| ||
Sbjct: 30311902 agtttagtggtgatatatagcaacattaattattttataacataattaatttattagctc
30311961

Query: 5237 agttgggttaga 5247
 ||||| |||||
Sbjct: 30311962 agttgattaga 30311972

Score = 85.7 bits (43), Expect = 1e-13
Identities = 96/111 (86%), Gaps = 2/111 (1%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataattttttatc
4816
 ||||||||| ||||||||| || |||| ||| ||| ||| || | ||||||| |||||
Sbjct: 46426468 taactgttaatattttttattggtacggtaagtaacaattgatgaacaataattctttacc
46426527

Query: 4817 aatatcatagctttggttagaaaaaaagagatttaataattaatagctaaa 4867
 ||||||||| ||||| ||||||||| ||||||||| ||||||||| |||||
Sbjct: 46426528 aatatcatagttttggttaagaaaaaa-agatttaataagtttaatagctaaa 46426577

Score = 83.8 bits (42), Expect = 5e-13
Identities = 72/82 (87%)
Strand = Plus / Minus

Query: 5254 tgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaattttaaattaat
5313
 ||||||||| ||||||| | |||| ||||||| ||||||||| |||||||||
Sbjct: 38863247 tgttaataatgcaaaagtcataaggttcattcttatatggatcattaatcttaaattaat
38863188

Query: 5173 tagaaatTTTtagtgTTatatttagtgaaattaattatTTTataacataattgatgtatta
5232
|||||
Sbjct: 16784768 tagaaatTTTtagtgTTatatatagtgacattaattatTTTtaacatgattggTctatta
16784827

Query: 5233 gttcagttggTtagagc 5249
| | |
Sbjct: 16784828 gcttaattggTtagagc 16784844

Score = 79.8 bits (40), Expect = 7e-12
Identities = 52/56 (92%)
Strand = Plus / Minus

Query: 5294 atcattaatTTTaaattaatttgTaaaatatatTTTtgaaaaaaattataaaaa 5349
|||||
Sbjct: 2105505 atcattaatTTTaaattaattcgTaaaacatatTTTtgaaaagaaattataaaaa
2105450

Score = 79.8 bits (40), Expect = 7e-12
Identities = 109/132 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcTgcacaataaatatacattaga
5176
|||||
Sbjct: 2914087 aaaattaattgtcataaaaatttattatgTaaatttatatgtgcgttaaatacattaaa
2914028

Query: 5177 aatTTtagtgTTatatttagtgaaattaattatTTTataacataattgatgtattagttc
5236
|| |||
Sbjct: 2914027 aaatTTtgTgttatatataacgacattaattatTTTataatataattagactattagctc
2913968

Query: 5237 agttggTtagag 5248
|||||
Sbjct: 2913967 agttgattagag 2913956

Score = 79.8 bits (40), Expect = 7e-12
Identities = 94/112 (83%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTTtagtgTtatatTTtagtgaaattaattatTTTataacataa
 5221
 ||||| ||| ||||| ||||| ||| || ||||| ||||| |||||
 Sbjct: 15576073 taaatataaaattaaaaatTTTtagtgTtatataaacgatgttaattatTTTtaacataa
 15576014

Query: 5222 ttgatgtattagttcagttggTtagagcattatgttaataatgtgaaagtca 5273
 || | |||| ||| ||||| ||| ||||| ||| |||||
 Sbjct: 15576013 ttaaaatattaattcaattggTtagagtgTtatgctaataacgtaaaagtca 15575962

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 109/132 (82%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatTTTattatctaaattTgcTgcacaataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 19023518 aaaattaattgtcacaaaatTTTattatTTaaatctacatgcgtattaaatatacatcaga
 19023577

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
 5236
 ||||| ||||| ||| | |||| ||||| ||| ||||| ||||| |||||
 Sbjct: 19023578 aatTTtaatgttatgtataacaacattatTTatTTTacaacgtaattggctcattagctc
 19023637

Query: 5237 agttggTtagag 5248
 ||||| |||||
 Sbjct: 19023638 agttggTtagag 19023649

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 82/96 (85%)
 Strand = Plus / Minus

Query: 5130 acaaaatTTattatctaaattTgcTgcacaataaatatacattagaaatTTtagtgTta
 5189
 ||||| ||||| ||||| ||| ||| ||| ||||| ||||| ||||| |||||
 Sbjct: 22461289 acaaaatTTattatgtaaacttatatgtgcattaaatatacattaaaaatTTtagtgTta
 22461230

Query: 5190 tatTTtagtgaaattaattatTTTataacataattga 5225
 ||| || || ||||| ||||| ||||| |||||
 Sbjct: 22461229 tatataacgacattaattatTTTataatataattga 22461194

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||| ||||||||| || ||||||||| |||| | | ||||||||| ||
Sbjct: 6251751 aaaaataattgttataagatttattatgttaaacttatatgtatattaaatatacattaaa
6251692

Query: 5177 aattttagtggttatatttagtgaaattaattatttataacataatt 5223
 ||||||||| ||||| ||| | ||||||||| |||||||||
Sbjct: 6251691 aattttagtattatatatagcaatattaattatttttaacataatt 6251645

Score = 77.8 bits (39), Expect = 3e-11
Identities = 57/63 (90%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataaatatacattagaaattttagtggtta
5189
 ||||||||| ||||||| ||| ||| ||||||||| ||||||||| |||||||||
Sbjct: 6598733 acaaaatttattatgtaaatttacatatacattaaatataaattagaaattttagtggtta
6598674

Query: 5190 tat 5192
 |||
Sbjct: 6598673 tat 6598671

Score = 77.8 bits (39), Expect = 3e-11
Identities = 94/111 (84%), Gaps = 1/111 (0%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattatttataacataa
5221
 |||| ||||||||| ||||||||| ||| | | ||||||||| ||||||| |
Sbjct: 7566194 taaacatacattagaaattttagtggttatatataataacattaattatttcataacatca
7566253

Query: 5222 ttgatgtattagttcagttgggttagagcattatggttaataatgtgaaagtc 5272
 || | ||||| || | ||||||||| | | ||||||||| |||||||
Sbjct: 7566254 ttaacttattaatttatttgggttagagta-tgtggttaataatctgaaagtc 7566303

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataacataacattaga
5176
 ||||| | ||||| ||||| ||||| ||| ||| ||||| ||||| |
Sbjct: 8315604 aaaattaattatcacaaaattaattatttaaatttacatacacattaaatatattaaa
8315663

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 ||||| ||||| ||| | ||||| ||||| ||||| |||||
Sbjct: 8315664 aatttttagtggttatgtataacaacattatttattttataatataatt 8315710

Score = 77.8 bits (39), Expect = 3e-11
Identities = 48/51 (94%)
Strand = Plus / Minus

Query: 6423 agttgaaatcctttgtatttttattttatttgattattataataacataatt 6473
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 22226754 agttgaaatcctttgtattttcattttatttgattattaaaataaataatt 22226704

Score = 77.8 bits (39), Expect = 3e-11
Identities = 87/103 (84%)
Strand = Plus / Plus

Query: 7509 tcttcaaaacttgattcaagggtcattgtatcatcgagggtattcacccaaaccctccaaa
7568
 ||||| ||||| ||||| ||||| ||| ||||| ||||| ||||| |||
Sbjct: 33833594 tcttcaaaactcgattcaagggtcattgcttgagcgagggtatttatccaaaccctgaaaa
33833653

Query: 7569 ttcaaagagcttgacagaaactggtggtggttgatgcatatgttt 7611
 || ||||| || ||||| ||||| ||||| ||||| |||||
Sbjct: 33833654 ttgaaagaactgccagaaattggtggtggatgtgcaaatgttt 33833696

Score = 75.8 bits (38), Expect = 1e-10
Identities = 56/62 (90%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaaatTTTtagtgTTatatttagtgaaattaattatTTTataacataa
 5221
 ||||| ||| ||||| ||||| ||||| ||| || ||||| ||||| |||||
 Sbjct: 1154618 taaatataatataaaaatTTTtagtgTTatatatagcgatattaattatTTTatatcataa
 1154677

Query: 5222 tt 5223
 ||
 Sbjct: 1154678 tt 1154679

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 50/54 (92%)
 Strand = Plus / Plus

Query: 5014 ataattTTtaataaattatTTTatgaataaaaaggTTTattcTTaaatttg 5067
 ||||| ||||| ||||| ||||| ||||| ||| || ||||| |||||
 Sbjct: 18957763 ataattTTtaataaattatTTTatgaataaaaattTTTatcattcTTaaatttg
 18957816

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 92/110 (83%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgTTacaaaatttattatctaaatttgcatgcacaataaatatacattag
 5175
 ||||| ||||| ||||| ||||| ||||| ||| || || ||||| |||||
 Sbjct: 42677156 aaaaattaattgTTataaaaatttattatgtaaacttatatttgTattaaatgtacattga
 42677215

Query: 5176 aaattTTtagtgTTatatttagtgaaattaattatTTTataacataattga 5225
 ||||| ||||| ||||| ||| || ||||| ||||| ||||| |||||
 Sbjct: 42677216 aaattTTtagtattatatagagcgacattaattatTTTataacataattga 42677265

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 58/65 (89%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgTTacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||| || ||||| |||||
 Sbjct: 7566186 aaaattaattgtcacaaaatttattatgtaaatttatatgtgcattaaatatacattaga
 7566127

Query: 5177 aattt 5181
 |||||
 Sbjct: 7566126 aattt 7566122

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 100/121 (82%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTatatTTtagtgaaattaattatTTtataacataa
 5221
 ||||||| ||||||||||||||| ||||| ||| | ||||||||||||||| |||||||
 Sbjct: 39027449 taaatataTattagaaatTTtagtTatatatatagcaacattaattatTTTacaacataa
 39027508

Query: 5222 ttgatgtattagttcagttggTTtagagcattatgttaataatgtgaaagtcaaaagttca
 5281
 | | | ||||| ||||||| ||||||||||| | ||||| ||| ||||||| | |||||
 Sbjct: 39027509 tcgacctattaactcagtttagtttagagcatcgTgctaataTgatgcgaaagtcataTgttca
 39027568

Query: 5282 a 5282
 |
 Sbjct: 39027569 a 39027569

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 66/76 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatTTtattatctaaatTTgcatgcacaataaatatacattaga
 5176
 ||||||||||||||||||||||||||||||||| || || | |||||||||||||||
 Sbjct: 11739108 aaaattaattgttacaaaatTTtattatctaaactTatgtgtgtattaaatatacattaga
 11739167

Query: 5177 aattTTtagtgTTatat 5192
 ||||||| || |||||
 Sbjct: 11739168 aattTTaatgatatat 11739183

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 75/88 (85%)
 Strand = Plus / Minus

```
Query: 5184      gtgttatatttagtgaaattaattattttataaca 5218
                ||||||||| || | |||||||||||||||||
Sbjct: 7228072  gtgttatatataacaacattaattattttataaca 7228038
```


Score = 69.9 bits (35), Expect = 7e-09
Identities = 89/107 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||| | |||||||| |||| | || | | | | | || |||||||| ||
Sbjct: 10103606 aaaattaagtgttacaaaattaattatgtaaacttatatgtgtattaaatatacattata
10103665

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 |||||| | |||||| | | || | |||||||| || | |||||
Sbjct: 10103666 aattttaacggttatatataatgacattaattattttttaatataatt 10103712

Score = 69.9 bits (35), Expect = 7e-09
Identities = 62/71 (87%)
Strand = Plus / Plus

Query: 5153 catgcacaataaatatacattagaaatttttagtggttatatttagtgaaattaattatttt
5212
 |||||||| |||| | | |||||||| |||||||| | |||| | |||| | |||||
Sbjct: 13855821 catgcacattaaacatgcattagaaatttttagtggttatgtatagtaacattatttatttt
13855880

Query: 5213 ataacataatt 5223
 |||| | ||||
Sbjct: 13855881 ataacgtaatt 13855891

Score = 69.9 bits (35), Expect = 7e-09
Identities = 106/127 (83%), Gaps = 7/127 (5%)
Strand = Plus / Minus

Query: 6316 ttaattgtctatatttgtgttctgtttaaattgaaaacaatattatttttcatatgttgt
6375
 |||||| | |||||| |||| | |||||| | |||| | |||||| | ||||||||
Sbjct: 15704624 ttaattatctatatttatgttttgtttaaactaaaaataatattattatgcatatgttgt
15704565

Query: 6376 taattcttaatttcttatgcataattttatgttttatcatttttt-aagagttgaaatcct
6434
 | |||||| | | |||||| | |||||||| |||||||| ||||||||

Sbjct: 15704564 ----tggttaattggtttt--catatTTTTTatTTTtATcattTTTTtgaagagttgaaatcct
15704511

Query: 6435 ttgtatt 6441
 |||||
Sbjct: 15704510 ttgtatt 15704504

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattag
5175
 |||||
Sbjct: 17377809 aaaaattaattgtcataaaaatttattatgtaaatttacatgttcattaaatatacattag
17377868

Query: 5176 aaa 5178
 |||
Sbjct: 17377869 aaa 17377871

Score = 69.9 bits (35), Expect = 7e-09
Identities = 83/99 (83%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
6737
 |||||
Sbjct: 21011089 atgcgacacatagaatatcgctttgggttgaccaggttcttggatatccatttcagtgtgg
21011148

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttc 6776
 |||||
Sbjct: 21011149 atacgagagaaggtagggcaacctttagaatttcttttc 21011187

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacacataaatatacattagaaatttttagtggtta
5189
 |||||

Sbjct: 37606141 acaaaatztatcatgtaaatttacatgtacattaaatataaaattaaaaatatttagtggtta
37606082

Query: 5190 tat 5192
|||
Sbjct: 37606081 tat 37606079

Score = 67.9 bits (34), Expect = 3e-08
Identities = 58/66 (87%)
Strand = Plus / Plus

Query: 6949 aaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgacca
7008

|||||||||||| ||| || |||||||||| |||||||| ||| |||||||||| |||||
Sbjct: 21011295 aaaacatgtgcaatttctggaatttgtcatagtcacaccaccgttcacctagcctgaccg
21011354

Query: 7009 tgaaat 7014
|||||
Sbjct: 21011355 tgaaat 21011360

Score = 67.9 bits (34), Expect = 3e-08
Identities = 34/34 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacat 1676
||||||||||||||||||||||||||||||||
Sbjct: 38221424 aacgccttatcccactaggtgggggtcggctacat 38221391

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/54 (90%)
Strand = Plus / Minus

Query: 6311 tgttattaattgtctatatttgtgttctgtttaaattgaaaacaatattatttt 6364
|||||||| |||||||||| |||||||||| ||| |||||||||| ||||||||||
Sbjct: 48273055 tgttattaatggtctatatttattgttttgtttaaactgaaaataatattatttt
48273002

Score = 65.9 bits (33), Expect = 1e-07
Identities = 132/165 (80%)

Strand = Plus / Plus

Query: 7075 gcattaatcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagc
 7134

||||| ||| ||||||||||||||||||| |||||||| | ||| |||||| || |
 Sbjct: 21011419 gcattgatcaaactcaagaacaatgtgaacatttgcctttctttgtgcgctctttgatgac
 21011478

Query: 7135 cttgtttaataacttttgtataaaacttcaccaaataatcactcttgcgacttctctccc
 7194

||||||| ||||| | ||||| || || ||| || || | |||| | ||||||| ||
 Sbjct: 21011479 cttgttttagtacttgcgcataaaattggcctgatgcaaacattggtgcaacttctcttcc
 21011538

Query: 7195 ccttttggttgaacaatgcattacacctagtagtatagggttgattttac 7239

|||| | ||||||||||||||||||| ||| |||||||||||
 Sbjct: 21011539 tcttttggttgaacaatgcattacaccttagatatggttgattttac 21011583

Score = 65.9 bits (33), Expect = 1e-07
 Identities = 92/112 (82%), Gaps = 11/112 (9%)
 Strand = Plus / Minus

Query: 6556 atatgaaattacaaacaatagaacaaaatatattaaatttgaaataatacaacaaaaattt
 6615

|||| | ||||||||||||||||||| || || ||||||||||| |
 Sbjct: 27373766 atataaaattacaaacaatagaacaaaatatattaca-----atacaacaaaaa--t
 27373718

Query: 6616 taaaatacaaaacaatatggcataaaattaatggttggttgccctgagcctacac 6667

||||||| || ||| ||||| |||| | ||||||| |||||||||
 Sbjct: 27373717 taaaatacaaaagaacatgacataaatttaacattggttggttgagcctacac 27373666

Score = 65.9 bits (33), Expect = 1e-07
 Identities = 66/77 (85%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataacataacattag
 5175

||||| ||||| || | ||||||||||| ||||||| ||| ||| ||||||| ||||
 Sbjct: 38341797 aaaaaataattattaaaaaatttattatgtaaatttacatatacattaaatataaattaa
 38341738

Query: 5176 aaatttttagtggttatat 5192

| |||||||||||||

Sbjct: 38341737 atatttttagtgttatat 38341721

Score = 65.9 bits (33), Expect = 1e-07
Identities = 48/53 (90%)
Strand = Plus / Minus

Query: 5014 ataatttttaataaattattttatgaataaataaaaagggttttattcttaaattt 5066
 |||||
Sbjct: 46699588 ataatttttaataaactattttataaataaaaagggtttcattcataaattt
46699536

Score = 65.9 bits (33), Expect = 1e-07
Identities = 42/45 (93%)
Strand = Plus / Plus

Query: 5297 attaatTTTTaaattaatttgtaaaatatatttttgaaaaaaaaaat 5341
 |||||
Sbjct: 50185381 attaatTTTTaaattaatttcgtaaaacatatattttttaaaaaaaaaaat 50185425

Score = 63.9 bits (32), Expect = 4e-07
Identities = 200/255 (78%), Gaps = 2/255 (0%)
Strand = Plus / Minus

Query: 7033 ctctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
7092
 |||||
Sbjct: 24152020 ctctctcagggtttattgtctcctggaccaagaatcggtgtgtcgtgtcgatcaaactcatg
24151961

Query: 7093 aacaatgtgagagtttgcccttttctgtatgtctttcatagccttgtttaataacttttgt
7152
 |||||
Sbjct: 24151960 aacaatgtgagcggttgctctttctctatgcatctttgatggctttgcttagtacttgtgt
24151901

Query: 7153 ataaacttcaccaaagtgaatcactcttgcgacttctctccccctttgggtgaacaatgc
7212
 |||||
Sbjct: 24151900 ataaacttggttagatgcaagcattgtgtgatttttctccctcttttggtgaacaatgc
24151841

Query: 7213 attacacctagtaggttgattttaccaacaca--cattgccagattttgtgttttctt
7270

||||| ||| ||| ||||| ||||| | | || |||| | | |||| | | |||||
Sbjct: 24151840 attacgccttagatatgttgattttactagcgcatctattggcaaatatttgatttctt
24151781

Query: 7271 gagtaccaaattaat 7285

||||| ||||| |||||
Sbjct: 24151780 gagtaccaaattaat 24151766

Score = 63.9 bits (32), Expect = 4e-07
Identities = 53/60 (88%)
Strand = Plus / Minus

Query: 7309 ccaccatcccatgagagagtcacttttcttgagggaatcttcctaagctaattaattggt
7368

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27373028 ccaccattcccatgcaagagttcacttttcttgtagaatcttcttgagccaattaattggt
27372969

Score = 63.9 bits (32), Expect = 4e-07
Identities = 112/138 (81%), Gaps = 3/138 (2%)
Strand = Plus / Minus

Query: 6883 tatacacaagatgtatgtagttcctatactcatgggtgagcatgcttata---aacaacaa
6939

|||||| | |||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34360999 tatacataggatgcatgtagttcctatactcatgggtgagcatgcttataagcatcaacaa
34360940

Query: 6940 catgagaacaaaacatgtgcattttttgaaatttggtcacagtcacactacctttcatcta
6999

|||| ||||| ||||| | |||| ||||| |||| | | |||| | | ||||| |||||
Sbjct: 34360939 catgggaacaaggcatgtgtaccttttggaatttatcatattaacaccacatttcattctg
34360880

Query: 7000 gcttgaccatgaaatttc 7017

| |||| | ||||| |||||
Sbjct: 34360879 gtttgatcgtgaaatttc 34360862

Score = 63.9 bits (32), Expect = 4e-07
Identities = 41/44 (93%)
Strand = Plus / Minus

```
Query: 5162      taaatatacattagaaatttttagtgttatatatttagtgaaattaattattttataacataa
5221            |||||
Sbjct: 8001698  taaatatatattaaaatttttattggtatatataataaaaattaattattttataatataa
8001757
```

```
Query: 7360      ttaattg 7366
          |||||
Sbjct: 21011715 ttaattg 21011721
```


Score = 60.0 bits (30), Expect = 7e-06
Identities = 36/38 (94%)
Strand = Plus / Minus

Query: 2656 aaaacatggaattcatcctcaacatctctctcggtaac 2693
 |||||
Sbjct: 5992784 aaaacatggaattcatcctcaacatctctctcggtaac 5992747

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaa 5337
 |||||
Sbjct: 11572726 cattaatttttaaattaatttatgaacatatatttttgaaaaaa 11572685

Score = 60.0 bits (30), Expect = 7e-06
Identities = 30/30 (100%)
Strand = Plus / Plus

Query: 1920 tctctctaatagcttcgtttctaattttat 1949
 |||||
Sbjct: 12743984 tctctctaatagcttcgtttctaattttat 12744013

Score = 60.0 bits (30), Expect = 7e-06
Identities = 48/54 (88%)
Strand = Plus / Plus

Query: 5014 ataatttttaataaattattttatgaataaataaaaagggttttattcttaaatgtg 5067
 |||||
Sbjct: 14175854 ataatttttaataaactattttataaataaataaaaagcctcattcttaaatgtg
14175907

Score = 60.0 bits (30), Expect = 7e-06
Identities = 118/147 (80%), Gaps = 9/147 (6%)
Strand = Plus / Plus

Query: 5165 atatacattagaaatTTTTtagtgTTatatttagtgaaattaattTTTTtataacataattg
 5224
 |||| |||| | |||| | |||| | |||| |||| |||| |||| |||| ||||
 Sbjct: 15050553 atatgcattaaaatTTTTtagcattatatataatgacattaattTTTTtattacataattg
 15050612

Query: 5225 atgtatta----gttcagttg---gtttagagcattatgttaataatgtgaaagtcaaa
 5275
 | |||| | |||| | |||| | |||| | |||| | |||| |||| |
 Sbjct: 15050613 gtttattagttcggttcagttgatttagttagagcggttatgctaataacgcgaaagtcaaa
 15050672

Query: 5276 agttcaattcttacttggatcattaat 5302
 |||| |||| |||| ||||
 Sbjct: 15050673 tattcaattcctacttggaccattaat 15050699

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 52/58 (89%), Gaps = 1/58 (1%)
 Strand = Plus / Plus

Query: 4758 taactgttaatctTTTTattgataccgtaa-taataattaataagtaataattTTTTa
 4814
 |||| |||| |||| |||| | || | |||| |||| |||| |||| ||||
 Sbjct: 18957616 taactgttaatcattttattgatatacataaataataattaatgagtaataactTTTTa
 18957673

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 87/106 (82%)
 Strand = Plus / Minus

Query: 7134 ccttgTTtaataactTTTTgtataaaacttcaccaaagtgaatcactcTTgcgacttctctcc
 7193
 |||| |||| | || | |||| |||| | || |||| | | |||| |||| ||||
 Sbjct: 27373222 ccttgTTtaatgTTTTcgataaaacttggtcagatgtaagaattgTTgcaacttctctcc
 27373163

Query: 7194 ccctttggttgaacaatgcattacacctagtataggTTgattttac 7239
 | || | |||| |||| |||| |||| |||| |||| |||| ||||
 Sbjct: 27373162 ctttttTgttgaacaattcattacaccttatatatgTTgattttac 27373117

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 49/54 (90%), Gaps = 1/54 (1%)
 Strand = Plus / Plus

Query: 5013 aataatTTTtaataaattatTTTtatgaataaataaaaggTTTtattctTaaattt 5066
 ||||| ||||| ||||| ||||| |||||
 Sbjct: 48358687 aataatTTTtaaaaaattatTTTtataaataaataaaa-aatttattctTaaattt
 48358739

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 62/73 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgTtacaaaatttattatctaaatttgcTgcacaataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| |||||
 Sbjct: 2784000 aaaattaattgTcacaaaatttattatataaataaacatgTgcattaaatatggattaga
 2784059

Query: 5177 aatttttagtgTta 5189
 ||||| |||||
 Sbjct: 2784060 aatttttagagTta 2784072

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 35/37 (94%)
 Strand = Plus / Minus

Query: 1646 gccttatccactaggtggggTcggctacatggatca 1682
 ||||| ||||| ||||| |||||
 Sbjct: 4075463 gccttatccactaggtgaggtcagctacatggatca 4075427

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 35/37 (94%)
 Strand = Plus / Plus

Query: 5294 atcattaatTTTtaaatTaatTTtgTaaaatatatTTTt 5330
 ||||| ||||| ||||| |||||
 Sbjct: 6836523 atcattaatTTTtaaatTaatTTtgTaaaacatatTTTt 6836559

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 56/65 (86%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacatag
5175
|||||
Sbjct: 7565762 aaaaattaattgtcacacaatttatcatgtaaatttatatgtgcattaaatatacatag
7565703

Query: 5176 aaatt 5180
|||||
Sbjct: 7565702 aaatt 7565698

Score = 58.0 bits (29), Expect = 3e-05
Identities = 90/109 (82%), Gaps = 1/109 (0%)
Strand = Plus / Plus

Query: 4893 tttattttgttcctattcaattctaattttgtcatttttt-tcactgtctctcgtacttc
4951
|||||
Sbjct: 10251133 tttattctcttcctattcaattttaattttatcttttttctcattgtctcttatatttt
10251192

Query: 4952 tctgtcttctcacctgtttcttcagtttacttgattattattttacttt 5000
| |||||
Sbjct: 10251193 tatgtcttctcacttacttcttttagtttatttgattattgtttcacttt 10251241

Score = 58.0 bits (29), Expect = 3e-05
Identities = 38/41 (92%)
Strand = Plus / Plus

Query: 5117 aaaaattaattggttacaaaatttattatctaaatttgcacac 5157
|||||
Sbjct: 13855772 aaaaattaattgtataaaaatttattatttaaatttacatgc 13855812

Score = 58.0 bits (29), Expect = 3e-05
Identities = 52/60 (86%), Gaps = 6/60 (10%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggg-----tcggctacatggatcaacttccgccataat
1696
|||||
Sbjct: 14423151 aacgccttatcccacttggtggggggtgggatcgactacatggatcaacttccgccataat
14423210

Score = 58.0 bits (29), Expect = 3e-05
Identities = 101/125 (80%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||| ||||||||||| | ||||| || | ||||||||||||||| |
Sbjct: 15227618 aaaattaattggttacgaaatttattatgtgaatttatatatgtattaaatatacattata
15227559

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 || ||||||| ||||||| || | ||||||||||||||| ||| ||||||| | ||||| ||
Sbjct: 15227558 aacttttagtattatataatctatattaattattttttaataataattgggtctattaaatc
15227499

Query: 5237 agttg 5241
 |||||
Sbjct: 15227498 agttg 15227494

Score = 58.0 bits (29), Expect = 3e-05
Identities = 38/41 (92%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaaattataaaa 5348
 ||||||| ||||||| ||||||||||||||||||||| |||||
Sbjct: 17378040 attaattcgtaaaacatatatttttgaaaaaaaaattataaaa 17378080

Score = 58.0 bits (29), Expect = 3e-05
Identities = 42/45 (93%), Gaps = 1/45 (2%)
Strand = Plus / Plus

Query: 6042 tttttttatccaaataata-aaaaaaaaattaattatttacccaaa 6085
 ||||||| ||||||||||| |||||||||||||||||||||
Sbjct: 18541682 tttttttgcccaaataacaaaaaaaaattaattatttacccaaa 18541726

Score = 58.0 bits (29), Expect = 3e-05
Identities = 53/61 (86%)
Strand = Plus / Minus

Query: 6316 ttaattgtctatatttgtgttctgtttaaattgaaaacaatattatattttcatatgttgt
6375
 ||||| ||||||| ||| | |||||| |||||| ||||||||| |||||||
Sbjct: 22227158 ttaattatctatatttatgtttatttaaactgaaaataatattatatttatatatgttgt
22227099

Query: 6376 t 6376
 |
Sbjct: 22227098 t 22227098

Score = 58.0 bits (29), Expect = 3e-05
Identities = 32/33 (96%)
Strand = Plus / Plus

Query: 5016 aattttaataaattatatttatgaataaataaaa 5048
 ||||||||||||||||| |||||||||
Sbjct: 48312001 aattttaataaattatatttataaataaataaaa 48312033

Score = 56.0 bits (28), Expect = 1e-04
Identities = 49/56 (87%)
Strand = Plus / Minus

Query: 5265 tgaaagtcaaaagttcaattcttacttggatcattaatttttaaattaatttgtaaa 5320
 ||||||| ||||| | |||||| ||| ||||||||||||||||||| |||||
Sbjct: 1768065 tgaaagtcacaagtttgaatcttacatgggtcattaatttttaaattaattcgtaaa
1768010

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 5194 tagtgaaattaattatattttataacataattgatgtattagttca 5237
 ||||| ||||||||||||| ||||||||| |||||||||
Sbjct: 1768109 tagtgacattaattatatttacaacataattgacctattagttca 1768066

Score = 56.0 bits (28), Expect = 1e-04
Identities = 77/92 (83%), Gaps = 1/92 (1%)
Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtata
 5191
 |||||
 Sbjct: 5029688 aaaatttattatgtaaatttattgtgtacgttaaataaaattagaaatttttagtattata
 5029747

Query: 5192 ttttagtgaaattaattattttataacataatt 5223
 | |||
 Sbjct: 5029748 tatagcgatactatttta-tttataacataatt 5029778

Score = 56.0 bits (28), Expect = 1e-04
 Identities = 31/32 (96%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaa 5148
 |||||
 Sbjct: 9640003 aaaattaattggtacaaaatttattatataaa 9640034

Score = 56.0 bits (28), Expect = 1e-04
 Identities = 62/72 (86%), Gaps = 1/72 (1%)
 Strand = Plus / Plus

Query: 4827 ctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaaaagtttttct
 4886
 |||||
 Sbjct: 10251059 ctttgtttagagaaaa-gagatttaatagttgatagctaaaaaaacttaaaaaattttct
 10251117

Query: 4887 tttattttttatt 4898
 |||||
 Sbjct: 10251118 tttattttttatt 10251129

Score = 56.0 bits (28), Expect = 1e-04
 Identities = 34/36 (94%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattggtacaaaatttattatctaaattt 5151
 |||||
 Sbjct: 17838159 aaaaattaattgtaacaaaatttattatataaaattt 17838194

Score = 56.0 bits (28), Expect = 1e-04
Identities = 49/55 (89%), Gaps = 2/55 (3%)
Strand = Plus / Plus

Query: 5286 ttacttggatcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
 ||||| |||||||||||||||||||| || | ||||||||||||||||
Sbjct: 17838301 ttacttgaatcattaatttttaaattaattttcaaa--acatttttgaaaaaaaaa
17838353

Score = 56.0 bits (28), Expect = 1e-04
Identities = 43/48 (89%)
Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataata 7478
 |||||||||||| |||||||||||| || |||| ||||||||||||
Sbjct: 21017882 atacaacaatgaaaaacacacatgatgacttcaaaccattaaataata 21017929

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 5747 atcaaatttgctaaaagatccttaaactttaattgaaaaa 5786
 |||||||| |||||||||||| |||| ||||||||
Sbjct: 21393130 atcaaatttggtaaaagatccttagactttcattgaaaaa 21393169

Score = 56.0 bits (28), Expect = 1e-04
Identities = 31/32 (96%)
Strand = Plus / Minus

Query: 7254 agattttgtgttttcttgagtaccaaattaat 7285
 ||||| ||||||||||||||||||||
Sbjct: 22226060 agatttcgtgttttcttgagtaccaaattaat 22226029

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattg 5156
 |||||||||||| |||||||||||||| |||||| ||||
Sbjct: 46116238 aaaattaattgtcacaaaatttattatataaaatttacattg 46116199

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatatttttgaaaaaaa 5338
 |||||||||||||||||||| ||| ||||||||| |||||||
Sbjct: 48758412 tcattaatttttaaattaatttcataaaactatatatttttaaaaaaaa 48758455

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatatttttgaaaaaaa 5338
 |||||||||||||||||||| || ||||||||||||||| |||||||
Sbjct: 48917636 tcattaatttttaaattagttcataaaatatatatttttaaaaaaaa 48917593

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5305 taaattaatttgtaaaatatatatttttgaaaaaaa 5339
 ||||||| ||||||| |||||||||||||||||
Sbjct: 6598590 taaattaaattgtaaaattatatatttttgaaaaaaa 6598556

Score = 54.0 bits (27), Expect = 4e-04
Identities = 115/143 (80%), Gaps = 1/143 (0%)
Strand = Plus / Plus

Query: 5120 attaattgttacaaaatttattatctaaatttgcacataaatatacattagaaat
5179
 ||||||| ||||||||||||||||| ||||||| ||| | ||||| || |||||||
Sbjct: 8766655 attaattattacaaaatttattacataaatttatatgtgtattaaatgtattctagaaat
8766714

Query: 5180 tttagtgttatatttagtgaaattaattatattttataacataattgatgtattagttcagt
5239
 ||||||||||||| || || ||||||| ||||| ||||||||||||| | ||||||| |||
Sbjct: 8766715 tttagtgttatatatatcgacattaattgtttt-taacataattgacctcttagtttaat
8766773

Score = 54.0 bits (27), Expect = 4e-04
Identities = 36/39 (92%)
Strand = Plus / Minus

Query: 7036 tctccagttaattgtctcctagactaagaattgtatgtc 7074
 |||| | |||| | |||| |||| |||| |||| |||| ||||
Sbjct: 22226143 tctcgagttaactgtctcctagactaagaattgtgtgtc 22226105

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 |||| |||| | |||| |||| |||| |||| |||| ||||
Sbjct: 24152510 acaagttgaattgaactaaaatatttaaatt 24152480

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 5291 tggatcattaatttttaaattaatttgtaaaa 5321
 |||| | |||| |||| |||| |||| |||| |||| ||||
Sbjct: 30311525 tggaccattaatttttaaattaatttgtaaaa 30311495

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagag 7327
 |||| |||| |||| | |||| |||| |||| |||| ||||
Sbjct: 34360570 gtgtcccatcgtcagccaccatcccatgcaagag 34360536

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682
 |||| |||| |||| |||| | |||| |||| |||| ||||
Sbjct: 37968036 cttatcccactaggtgaagtcgggtacatggatca 37968002

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)

Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatggatc 1681
 |||||
 Sbjct: 312111 cttatcccactaggtgggtgtcagctacatggatc 312144

Score = 52.0 bits (26), Expect = 0.002
 Identities = 111/138 (80%), Gaps = 1/138 (0%)
 Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcacataacattagaaattttagtgttata
 5191
 |||||
 Sbjct: 1251513 aaaatttattatctaaatttatatgta-aacaaatatatatttaaattttattattata
 1251455

Query: 5192 tttagtgaattaattattttataacataattgatgtattagttcagttggtagagcat
 5251
 ||| |
 Sbjct: 1251454 catagcaatattaattattttataacataattaatttattaattatggtgatgagaacat
 1251395

Query: 5252 tatgttaataatgtgaaa 5269
 ||
 Sbjct: 1251394 catattaataatatgaaa 1251377

Score = 52.0 bits (26), Expect = 0.002
 Identities = 32/34 (94%)
 Strand = Plus / Plus

Query: 6139 atttcttaattacatttttttatacatttagaaa 6172
 |||||
 Sbjct: 3934947 atttcttaattatatttttttatatatttagaaa 3934980

Score = 52.0 bits (26), Expect = 0.002
 Identities = 54/62 (87%), Gaps = 1/62 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttac-aaaatttattatctaaatttgcacataacattag
 5175
 |||||

Sbjct: 4429685 aaaattaattgtcacgaaaatttattatgtaaatttacatatgcattaaatatacattag
4429626

Query: 5176 aa 5177
||
Sbjct: 4429625 aa 4429624

Score = 52.0 bits (26), Expect = 0.002
Identities = 50/56 (89%), Gaps = 4/56 (7%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAAATTATAAAAAAA 5351
|||||
Sbjct: 8001541 cattaatttttaaattaattcgtaaaacatatTT--AAAAAAAAATT-TAAAAAA
8001490

Score = 52.0 bits (26), Expect = 0.002
Identities = 71/86 (82%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtgttatatTTTtagtgaaattaattttttataacataa
5221
|||||
Sbjct: 9558215 taaatataatataaaaaatttagtattccatataatgacattaattttttataatataa
9558156

Query: 5222 ttgatgtatttagttcagttgggttaga 5247
|| | || |||||
Sbjct: 9558155 ttaacttactagttgagttgggttaga 9558130

Score = 52.0 bits (26), Expect = 0.002
Identities = 26/26 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttAAAAAAAAAAAAAACAAGT 5573
|||||
Sbjct: 12239324 ttttttttAAAAAAAAAAAAAACAAGT 12239299

Score = 52.0 bits (26), Expect = 0.002
Identities = 38/42 (90%)

Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtggggtcggctacatggatc 1681
 ||||| ||||||||||||||| ||| ||| |||||||||||||
Sbjct: 34722343 acaaaagccttatcccactatgtgaggttggctacatggatc 34722302

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggtta 5245
 ||||||||||||| |||||| ||||| ||||||||||| |||||||
Sbjct: 1255597 attaattatTTTttaaattattgacataattagttcatttgggtta 1255553

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 5297 attaatTTTtaaattaatttgtaaaatatatTTTtgaa 5333
 ||||||||||||||||||| |||||| ||| |||||||||
Sbjct: 2783594 attaatTTTtaaattaatttcgtaaaacatactTTTtgaa 2783558

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 5296 catTAatTTTtaaattaatttgtaaaatat 5324
 ||||||||||||||||||| |||||||||
Sbjct: 3313958 catTAatTTTtaaattaatttcgtaaaatat 3313930

Score = 50.1 bits (25), Expect = 0.007
Identities = 43/49 (87%)
Strand = Plus / Plus

Query: 5132 aaaatTTtattatctaaatTTgcatgcacaataaatatacattagaaatt 5180
 ||||||||||||| |||||| |||| ||| ||||||||| |||| |||||
Sbjct: 3709996 aaaatTTtattatataaaatTTacatgtacattaaatataaaattaaaaatt 3710044

Score = 50.1 bits (25), Expect = 0.007
 Identities = 34/37 (91%)
 Strand = Plus / Plus

Query: 1646 gccttatccactaggtggggctcggtacatggatca 1682
 ||||| ||||| ||| |||||
 Sbjct: 4568157 gccttataccactaggtgaggttggtacatggatca 4568193

Score = 50.1 bits (25), Expect = 0.007
 Identities = 25/25 (100%)
 Strand = Plus / Minus

Query: 2800 actttattaaattcatataaaatgg 2824
 ||||| ||||| ||||| |||||
 Sbjct: 5992642 actttattaaattcatataaaatgg 5992618

Score = 50.1 bits (25), Expect = 0.007
 Identities = 34/37 (91%)
 Strand = Plus / Minus

Query: 1646 gccttatccactaggtggggctcggtacatggatca 1682
 ||||| ||||| ||||| |||||
 Sbjct: 8165132 gccttatccactaggtgaattcggtacatggatca 8165096

Score = 50.1 bits (25), Expect = 0.007
 Identities = 41/45 (91%), Gaps = 1/45 (2%)
 Strand = Plus / Minus

Query: 5308 attaatgtgtaaaatatatttttgaaaaaa-aaattataaaaaaa 5351
 ||||| ||||| ||||| ||||| |||||
 Sbjct: 8764633 attaatgtgaacacatatatttttgaaaaaacaattataaaaaaa 8764589

Score = 50.1 bits (25), Expect = 0.007
 Identities = 31/33 (93%)
 Strand = Plus / Plus

Query: 1648 cttatccactaggtggggctcggtacatggat 1680
 ||||| ||||| ||||| |||||
 Sbjct: 9390962 cttatccactaggtgaagtcggctacatggat 9390994

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 5120 attaattggtacaaaatttattatctaaa 5148
 |||||
Sbjct: 10103467 attaattggtacaaaatttattatgtaaa 10103439

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 11380463 gccttatcccactaggtgaggtcgactgcatggatca 11380499

Score = 50.1 bits (25), Expect = 0.007
Identities = 46/53 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacataaaatata 5169
 |||||
Sbjct: 14168935 aaaattaattttcataaaaatttattatttaaatttatatgcacattaaatata
14168987

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatggat 1680
 |||||
Sbjct: 14306231 cttatcccactaggtgaggttggtacatggat 14306263

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682
 |||||
 Sbjct: 15385210 gccttatcccactaggtgaggtcagctatatggatca 15385174

Score = 50.1 bits (25), Expect = 0.007
 Identities = 55/65 (84%)
 Strand = Plus / Minus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
 7490
 |||||
 Sbjct: 15702217 atacgacaatgaacaaaacacacgatgactacaaatcactaaataataaaaatagcaataa
 15702158

Query: 7491 aataa 7495
 |||||
 Sbjct: 15702157 aataa 15702153

Score = 50.1 bits (25), Expect = 0.007
 Identities = 52/61 (85%)
 Strand = Plus / Minus

Query: 5132 aaaattttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggttata
 5191
 |||||
 Sbjct: 18563490 aaaattttattatgttaaatttacatatacattaaatataaaattagaaatctatgtgttata
 18563431

Query: 5192 t 5192
 |
 Sbjct: 18563430 t 18563430

Score = 50.1 bits (25), Expect = 0.007
 Identities = 34/37 (91%)
 Strand = Plus / Minus

Query: 6434 tttgtatttttattttatttgattattataataacata 6470
 |||||
 Sbjct: 27373863 tttgtattttcattttatttgattgttaaaataacata 27373827

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtccacttttc 7337
 ||||| | ||||| ||||| |||||
Sbjct: 36818140 gtgtcccatcatcgggccaccatcccatgcaagagtccatttttc 36818096

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaa 5336
 ||||| ||||| |||||
Sbjct: 38863597 attaatttgtaaaacatatatttttgaaaaa 38863625

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||| ||||| |||||
Sbjct: 42583280 gccttatcccactaggtgatgtcagctacatggatca 42583316

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 6043 ttttttatccaaataataaaaaaaaaaattaatta 6075
 ||||| ||| ||||| |||||
Sbjct: 48271715 ttttttatccaaataatacaaaataaattaatta 48271747

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 5541 attgaacttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| |||||
Sbjct: 756660 attgaacttttttttaaaaaaaaaaaaaa 756687

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttat 5140
 |||||
Sbjct: 1255668 aaaattaattgttacaaaatttat 1255645

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattatatttatgaataaataaaa 5048
 |||||
Sbjct: 2464492 aataattttaataaactattctataaataaataaaa 2464457

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggg 1666
 |||||
Sbjct: 2907301 aacgccttatcccactaggtgggg 2907324

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 5206 ttattttataacataattgatgtattagttcagttg 5241
 |||||
Sbjct: 6296959 ttattttataacataattggtctattagctcagttg 6296994

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaacaagta 5574
|||||||
Sbjct: 8873125 ctttttttttaaaaaaaaaaaaaaaagta 8873098

Score = 48.1 bits (24), Expect = 0.026
Identities = 60/72 (83%)
Strand = Plus / Plus

Query: 6304 ttttttttggtattaattgtctatatttgtgttctgtttaaattgaaaacaatattattt
6363
||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11204616 ttttttggtattattaattgtttatatatttatgttttatttaaactgaaaatattactattt
11204675

Query: 6364 ttcatatgttgt 6375
| ||||| |||||
Sbjct: 11204676 tgcataatttgt 11204687

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaaca 5570
|||||||
Sbjct: 19573969 ctttttttttaaaaaaaaaaaaaaca 19573946

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaaattaattatttacccaa 6084
||||||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34361771 aaataatacaataaattaattatttacccaa 34361740

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Plus

Query: 6431 tcctttgtattttttattttatttgattattataataacata 6470
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 38089432 tcctttgcattttaattttatttgattatttaaagtacata 38089471

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 7185 cttctctcccccttttggttgaacaatgcatta 7216
||||||| ||| |||||
Sbjct: 38090190 cttctctccctcttttggttgaacaatgcatta 38090221

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaaca 5570
|||||||
Sbjct: 43581342 ctttttttttaaaaaaaaaaaaaaca 43581365

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattg 5156
||||||| | ||||| |||||
Sbjct: 46361255 aaaattaattatcacaaaatttattatttaaatttacattg 46361216

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5201 attaatattttataacataatt 5223
|||||||
Sbjct: 153025 attaatattttataacataatt 153003

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Score = 46.1 bits (23), Expect = 0.10

Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacat 1676
||||| ||||||||||||||| |||||||
Sbjct: 11462812 gccttttcccactaggtgggggttggtacat 11462842

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaaatttattatctaaattt 5151
||||||| | ||||||||||||||| |||||||
Sbjct: 15050516 aaaattaattatcacaaaatttattatgtaaattt 15050550

Score = 46.1 bits (23), Expect = 0.10
Identities = 53/63 (84%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtta
5189
||||||| ||||||| || ||| ||||||| ||| ||||||| | |||
Sbjct: 45287417 acaaaatttattatgtaaatttaaataacattaaatataaaattaaaaattttaatatta
45287476

Query: 5190 tat 5192
|||
Sbjct: 45287477 tat 45287479

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggat 1680
||||||| ||||||||| || ||||||||| |||
Sbjct: 48468516 gccttatctcactaggtgaggttggtacatggat 48468482

Score = 46.1 bits (23), Expect = 0.10
Identities = 62/75 (82%)
Strand = Plus / Plus

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 4695568 ctttttttttaaaaaaaaaaaaaa 4695547

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatat 5326
|||||
Sbjct: 6164370 attaatttttaaattaattcttaaaatat 6164341

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 7089974 acttttttttaaaaaaaaaaaaaa 7089953

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5293 gatcattaatttttaaattaatt 5314
|||||
Sbjct: 8920383 gatcattaatttttaaattaatt 8920362

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Plus

Query: 1640 acaaacgccttatcccactagggtggggctcggtacatg 1677
|||||
Sbjct: 9372120 acaaaagccttatcccactaggtaagggttggtacatg 9372157

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaaac 5569
                |||||||||||||||||||
Sbjct: 10105682 tttttttttaaaaaaaaaaaaaaac 10105661
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5201      attaattatttttataacataat 5222
                |||||||||||||||||||
Sbjct: 11266420 attaattatttttataacataat 11266399
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

```
Query: 5337      aaaattataaaaaaatgaatcactta 5362
                ||||||||||||||||||| |||
Sbjct: 14188431 aaaattataaaaaaatgaatctctta 14188456
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 6264      cttttttttttgttttgtttta 6285
                |||||||||||||||||||
Sbjct: 15013463 cttttttttttgttttgtttta 15013484
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaaac 5569
                |||||||||||||||||||
Sbjct: 16229409 tttttttttaaaaaaaaaaaaaaac 16229388
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6487 attgaaattaaaaaatatatat 6508
|||||
Sbjct: 16797076 attgaaattaaaaaatatatat 16797097

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 4786 aataataattaataagtaataatttt 4811
||||| |||||
Sbjct: 20501364 aataattattaataagtaataatttt 20501389

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6290 tgtttgatTTTTATTTTTTTT 6311
|||||
Sbjct: 20639132 tgtttgatTTTTATTTTTTTT 20639153

Score = 44.1 bits (22), Expect = 0.41
Identities = 49/58 (84%)
Strand = Plus / Plus

Query: 6872 acttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgctta
6929
||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 21011228 actttccaacgtatacacaggatgtatgtagtttacataactcatgattagaatgctta
21011285

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 7309 ccaccatcccatgcgagagtccactt 7334

|||||
Sbjct: 22225989 ccaccatcccatgggagagtccactt 22225964

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 2473 tatgtcaaagggtccaatattgaaagaattt 2502
|||||
Sbjct: 23832826 tatgtccaagggtccaatattgaaagaattt 23832855

Score = 44.1 bits (22), Expect = 0.41
Identities = 46/54 (85%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatatttttgaaaaaaaaattataaaaa 5349
|||||
Sbjct: 38341649 cattaattttaagctaaatcgtaaattatatatttttgaaaaagaaaataaaaaaa
38341596

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 42510533 ctttttttttaaaaaaaaaaaaaa 42510554

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaaaca 5570
|||||
Sbjct: 45282342 ttttttttaaaaaaaaaaaaaaaca 45282321

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)

Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 46328708 ctttttttttaaaaaaaaaaaaaa 46328729
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 49992953 ctttttttttaaaaaaaaaaaaaa 49992974
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 528009    tttttttttaaaaaaaaaaaaaa 528029
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 627831    tttttttttaaaaaaaaaaaaaa 627851
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 664603    tttttttttaaaaaaaaaaaaaa 664583
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 756668 ttttttttaaaaaaaaaaaaaa 756688

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5287 tacttggatcattaatttttaaattaatttgtaa 5319
||||| ||||| ||||| |||||
Sbjct: 2105562 tacttgaatcattaatatttaaattaattcgtaa 2105530

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 6281 ttttaaaattgtttgtatttttatttttt 6309
||||||| ||| ||||| |||||
Sbjct: 2291665 ttttaaaatagtttttatttttatttttt 2291637

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 2318962 ttttttttaaaaaaaaaaaaaa 2318942

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 2961921 ttttttttaaaaaaaaaaaaaa 2961941

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 4163297 tttttttttaaaaaaaaaaaaaa 4163277

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 4163282 tttttttttaaaaaaaaaaaaaa 4163302

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5323 atatttttgaaaaaaaaaatta 5343
 ||||||||||||||||||||
Sbjct: 4468670 atatttttgaaaaaaaaaatta 4468690

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 4478578 tttttttttaaaaaaaaaaaaaa 4478598

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 4488129 tttttttttaaaaaaaaaaaaaa 4488149

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 |||||||||||||| ||| |||||||||| ||||||||
Sbjct: 4799429 gccttatcccacttggtgaagtcggctacttggatca 4799393

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 3266 gccaatTTTTgtAACAGGGTCTTCAAAAGAGGACCCT 3302
 |||||||||| || |||||||||| ||||||||||||
Sbjct: 5992133 gccaatTTTTtactAGGGTCTTCGAAAGAGGACCCT 5992097

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 5302 ttttaaattaatttgtaaaatatatTTTT 5330
 |||||||||||||| || ||||||||||||
Sbjct: 7296988 ttttaaattaatttttaatatatatTTTT 7297016

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgTTTTGTTTTA 6285
 ||||||||||||||||||||
Sbjct: 7474426 ttttttttttgTTTTGTTTTA 7474406

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)

Strand = Plus / Minus

```
Query: 5295      tcattaatttttaaattaatttgtaa 5319
              |||||||||||||||||||||
Sbjct: 7565540 tcattaatttttaaattaattcgtaa 7565516
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 5116      aaaaattaattgttacaaaatttat 5140
              |||||||||||||||
Sbjct: 7565831 aaaaattaattgtcacaaaatttat 7565807
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
              |||||||||||||||
Sbjct: 8131848 ttttttttaaaaaaaaaaaaaa 8131868
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 5201      attaattatTTTtataacataattga 5225
              |||| |||||||||||||||
Sbjct: 8765010 attatTTtattTTtataacataattga 8765034
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 6434      tttgtatttttattttatttgatta 6458
              |||||||||||||||
Sbjct: 9792212 tttgtatttttattttattttatta 9792236
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 10783349 tttttttttaaaaaaaaaaaaaa 10783369

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 11942861 cttttttttaaaaaaaaaaaaaa 11942841

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 6340 tttaaattgaaaacaatattatttttcatatggtggt 6376
 ||||| ||||| || ||||| |||||
Sbjct: 11971502 tttaaactgaaaataattttattttgcatatggtggt 11971538

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5024 taaattattttatgaataaaaaa 5048
 |||||
Sbjct: 13191363 taaattattttatgaataaaaaa 13191387

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5327 ttttgaaaaaaaaattataaaaaa 5351
 |||||
Sbjct: 13458052 ttttgaaaaaaaaattataaaaaa 13458028

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 13627345 ctttttttttaaaaaaaaaaaaaa 13627325

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 14351146 ttttttttttaaaaaaaaaaaaaa 14351126

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5028 ttatttttatgaataaataaaaagggtt 5052
 |||||
Sbjct: 14793710 ttattttataaataaataaaaagggtt 14793686

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 4877 aagtttttcttttatttttattttg 4901
 |||||
Sbjct: 15679291 aagtttttcttataatttttattttg 15679267

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 16083761 tttttttttaaaaaaaaaaaaaa 16083741

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5782 aaaaataaacttgactattta 5802
 |||||||
Sbjct: 16606096 aaaaataaacttgactattta 16606116

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattagttca 5237
 ||||||| ||||| || ||||| |||||
Sbjct: 17838236 attaattattttataatataattaatctattaattca 17838272

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 18280012 tttttttttaaaaaaaaaaaaaa 18279992

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 3939 gttatctatgtattctcacacaagt 3963
 ||||||| |||||
Sbjct: 18553336 gttatctatgtattctcacacaagt 18553360

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)

Strand = Plus / Plus

Query: 4737 acttgtgtgagaatacatagataac 4761
 ||||| ||||||||||||||||
Sbjct: 18554136 acttgtatgagaatacatagataac 18554160

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 5298 ttaatttttaaattaatttgtaaaatatat 5326
 ||||| |||||||||||||| |||||||||
Sbjct: 18560297 ttaatgttaaattaatttttaaaatatat 18560269

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 5298 ttaatttttaaattaatttgtaaaatatat 5326
 ||||| |||||||||||||| |||||||||
Sbjct: 18560921 ttaatgttaaattaattttataaaatatat 18560893

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5544 gaacttttttttaaaaaaaaaa 5564
 ||||||||||||||||
Sbjct: 19033643 gaacttttttttaaaaaaaaaa 19033623

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaattaat 6073
 ||||||||||||||||
Sbjct: 19929762 aaataataaaaaaaaaattaat 19929782

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 20511429 tttttttttaaaaaaaaaaaaaa 20511449

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 24828363 tttttttttaaaaaaaaaaaaaa 24828343

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 2577 ttgtaaataatatTTTTTTTctttc 2601
 ||||||||| ||||||||||||||
Sbjct: 25980936 ttgtaaatagtatTTTTTTTctttc 25980960

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 25981188 tttttttttaaaaaaaaaaaaaa 25981168

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaatgaat 5356
 |||||||||||||||||| |||||||
Sbjct: 28573108 aaaaaaaaaattataaaagaatgaat 28573132

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 32177587 tttttttttaaaaaaaaaaaaaa 32177567

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 7736 acaatcaccaacaaatgatac 7756
 |||||
Sbjct: 33833821 acaatcaccaacaaatgatac 33833841

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 34660000 tttttttttaaaaaaaaaaaaaa 34659980

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaaatt 5342
 |||||
Sbjct: 35048995 aaaatatatttttgaaaaagaaatt 35048971

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 1654 ccactaggtgggggtcggctacatggatca 1682
||||||| ||| |||||
Sbjct: 35146923 ccactaggtgaggtctgctacatggatca 35146951

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattta 6511
|||||||
Sbjct: 36357965 aaattaaaaaatatatattta 36357945

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtgggggtcggctacatggat 1680
||||||| || |||||
Sbjct: 38220491 cttatcccactaggtgatgttggtacatggat 38220523

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 5237 agttggttagagcattatgttaataatgtgaaagtca 5273
||||||| || || |||||
Sbjct: 38863537 agttggttagagcgttgtgctaataacgtgaaagtca 38863573

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 41219592 ttttttttaaaaaaaaaaaaaa 41219572

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 41416757 tttttttttaaaaaaaaaaaaaa 41416737
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

```
Query: 1646      gccttatcccactaggtggggtcggctacatgg 1678
                ||||||| ||||| ||| |||||||||||||||
Sbjct: 42434074 gccttatctcactaagtgaggtcggctacatgg 42434106
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 5325      atttttgaaaaaaaaaattataaaaa 5349
                ||||||||||||||||||| |||||
Sbjct: 42515004 atttttgaaaaaaaaaattataaaaa 42515028
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 6296      tatttttattttttttgttattaat 6320
                ||||||||||| |||||||||||
Sbjct: 44645755 tatttttattttttttgttattaat 44645731
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 6296      tatttttattttttttgttattaat 6320
                ||||||||||| |||||||||||
Sbjct: 44662130 tatttttattttttttgttattaat 44662106
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 46412804 tttttttttaaaaaaaaaaaaaa 46412824

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5552 ttttaaaaaaaaaaaaaacaag 5572
 ||||||||||||||||||
Sbjct: 47406935 ttttaaaaaaaaaaaaaacaag 47406915

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 4785 taataataattaataagtaataatt 4809
 |||||||||||||||||| |||||||
Sbjct: 47563054 taataataattaataattaataatt 47563078

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 6224 agttaagaaatcggttccttggaacgacttcttaa 6260
 |||||||||||||||||| | ||| ||| |||||||
Sbjct: 47865552 agttaagaaatcggttccttagaaaaccgatttcttaa 47865516

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 48690352 cttttttttaaaaaaaaaaaaaa 48690332

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 7265 tttcttgagtaccaaattaattaactcag 7293
 |||||
Sbjct: 49401918 tttcttgagtacgaaattaatttactcag 49401946

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 6438 tatttttattttatttgattattataata 6466
 |||||
Sbjct: 49834071 tatttttattttattttatgattataata 49834043

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 50402512 ttttttttaaaaaaaaaaaaaa 50402532

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 50519740 ctttttttaaaaaaaaaaaaaa 50519760

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaaattaattat 6076
||||||| |||||||||||||
Sbjct: 424380 aaataatacaaaaaaattaattat 424357

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
||||||| |||||||||||||
Sbjct: 576955 ttttttttaaaaaaaaaaaaaa 576936

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5306 aaattaatttgtaaaatatatttt 5329
||||||| |||||||||||||
Sbjct: 640283 aaattaatttctaaaatatatttt 640306

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
||||||| |||||||||||||
Sbjct: 692476 ttttttttaaaaaaaaaaaaaa 692457

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
||||||| |||||||||||||
Sbjct: 1007264 ttttttttaaaaaaaaaaaaaa 1007245

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Plus

```
Query: 5539      ttattgaactttttttttaaaaaa 5562
              ||||| |||||||||
Sbjct: 1165393 ttattgaattttttttttaaaaaa 1165416
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

```
Query: 2289      ttttgttgaacttacattccatatactc 2316
              ||||| ||||||| |||||||||
Sbjct: 1222147 ttttgctgaacttgcattccatatactc 1222174
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
              ||||||||| |||||||||
Sbjct: 1460286 tttttttttaaaaaaaaaaaaaa 1460305
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6491      aaattaaaaaatatatatattt 6510
              ||||||||| |||||||||
Sbjct: 1679004 aaattaaaaaatatatatattt 1678985
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 3892      taaaaatgatttttttttaaa 3911
              ||||||||| |||||||||
Sbjct: 1893499 taaaaatgatttttttttaaa 1893480
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 2297830 aacttttttttcaaaaaaaaaaaaaa 2297807

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||| |||||
Sbjct: 2524500 ttttttttaaaaaaaaaaaaaa 2524481

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5565
 ||||| |||||
Sbjct: 2740729 acttttttttaaaaaaaaaaaaaa 2740710

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||| |||||
Sbjct: 3167107 ttttttttaaaaaaaaaaaaaa 3167088

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||| |||||
Sbjct: 3228286 ttttttttaaaaaaaaaaaaaa 3228305

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||| |||||
Sbjct: 3508278 tttttttttaaaaaaaaaaaaaaaca 3508255

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaa 5566
 |||||
Sbjct: 3852416 cttttttttaaaaaaaaaaaaa 3852397

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5324 tattttttgaaaaaaaaaatta 5343
 |||||
Sbjct: 4265592 tattttttgaaaaaaaaaatta 4265573

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 5032093 tttttttttaaaaaaaaaaaaa 5032074

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 5032294 ttttttttaaaaaaaaaaaaaa 5032313

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5302 ttttaaattaatttgtaaaatatatttttgaa 5333
 ||||| ||||| | |||||
Sbjct: 5584389 ttttatattaatttctgaaatatatttttgaa 5584420

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaattaa 6072
 |||||
Sbjct: 5592070 aaataataaaaaaaaaattaa 5592051

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 6186539 aaaaaaaaaattataaaaaaa 6186558

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 7400 aatatttttattataaaaca 7419
 |||||
Sbjct: 6708454 aatatttttattataaaaca 6708435

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
               ||||||||||||||||
Sbjct: 7032523 ttttttttaaaaaaaaaaaaaa 7032542
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 4441      aattttttttttgtgaggc 4460
               ||||||||||||||||
Sbjct: 7431562 aattttttttttgtgaggc 7431581
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5545      aacttttttttaaaaaaaaaa 5564
               ||||||||||||||||
Sbjct: 7476062 aacttttttttaaaaaaaaaa 7476043
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

```
Query: 1646      gccttatccactaggtggggctcggtacatggatc 1681
               ||||||| ||||||| || | |||||||||
Sbjct: 7759421 gccttatctcactaggtgaggactgctacatggatc 7759386
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6434      tttgtatttttattttattt 6453
               ||||||||||||||||
Sbjct: 8468710 tttgtatttttattttattt 8468729
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 8530885 ttttttttaaaaaaaaaaaaaa 8530904

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 2571 tttaaatttgtaaataatatattttt 2594
 |||||
Sbjct: 8579494 tttaaatttttaaataatatattttt 8579517

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||
Sbjct: 8958174 aaattaaaaaatatatattt 8958193

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 9172993 acttttttttcataaaaaaaaaaaaaac 9172970

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6434 tttgtatttttattttattt 6453
 |||||
Sbjct: 9661827 tttgtatttttattttattt 9661846

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 9819469 tttttttttaaaaaaaaaaaaaa 9819450

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5565
 ||||||||||||||||||
Sbjct: 10375571 actttttttttaaaaaaaaaaaaaa 10375590

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6582 aatattttaaatattgaaataa 6601
 ||||||||||||||||||
Sbjct: 10400302 aatattttaaatattgaaataa 10400321

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 10783364 tttttttttaaaaaaaaaaaaaa 10783345

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5289 cttggatcattaatttttaaattaa 5312
 ||||| ||||||||||||||||
Sbjct: 10852225 cttggaccattaatttttaaattaa 10852202

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Plus

Query: 1647 cttatcccactaggtggggtcggctacatggatca 1682
 ||||||||||||||| | |||||||||||||||
Sbjct: 11149602 cttatcccactaggtgaagaccggctacatggatca 11149637

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6154 ttttttatacatttagaaat 6173
 ||||||||||||||||
Sbjct: 11205203 ttttttatacatttagaaat 11205184

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaa 5566
 ||||||||||||||||
Sbjct: 11664949 ctttttttttaaaaaaaaaaaa 11664968

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaa 5568
 ||||||||||||||||
Sbjct: 11674931 ttttttttaaaaaaaaaaaa 11674912

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 12123337 ttttttttaaaaaaaaaaaaaa 12123318
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
                |||||||||||||||||||
Sbjct: 12239309 ttttttttaaaaaaaaaaaaaa 12239328
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5324      tatttttgaaaaaaaaaatta 5343
                |||||||||||||||||||
Sbjct: 12643355 tatttttgaaaaaaaaaatta 12643374
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5556      aaaaaaaaaaaaaacaagtaa 5575
                |||||||||||||||||||
Sbjct: 12682983 aaaaaaaaaaaaaacaagtaa 12683002
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6041      ttttttttatccaaataata 6060
                |||||||||||||||||||
Sbjct: 12796747 ttttttttatccaaataata 12796766
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2588 attttttttctttctaaaca 2607
 |||||
Sbjct: 14027828 attttttttctttctaaaca 14027847

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5306 aaattaatttgtaaaatatatttt 5329
 ||||| |||||
Sbjct: 14165238 aaattagtttgtaaaatatatttt 14165215

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 14201185 aactttttttataaaaaaaaaaaaaa 14201162

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6434 tttgtatttttattttatttt 6453
 |||||
Sbjct: 14318401 tttgtatttttattttatttt 14318420

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3157 tataaattgaaagagctgca 3176
 |||||
Sbjct: 15654552 tataaattgaaagagctgca 15654571

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 16771573 tttttttttaaaaaaaaaaaaaa 16771592

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 1649 ttatcccactaggtggggctcggtacatggat 1680
 |||||
Sbjct: 16887002 ttatcccactaggtgaggttggttacatggat 16887033

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6488 ttgaaattaaaaaatatatattta 6511
 |||||
Sbjct: 17171866 ttgaagttaaaaaaatatatattta 17171843

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaattataaaaaaat 5352
 |||||
Sbjct: 17333260 aaaaaaattataaaaaaat 17333279

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 17530518 tttttttttaaaaaaaaaaaaaa 17530537

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5566
 |||||||
Sbjct: 17535339 cttttttttaaaaaaaaaaaaaa 17535358

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 18072859 tttttttttaaaaaaaaaaaaaa 18072878

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggg 1665
 |||||||
Sbjct: 18087330 gccttatcccactaggtggg 18087311

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5566
 |||||||
Sbjct: 18243349 cttttttttaaaaaaaaaaaaaa 18243368

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||
Sbjct: 18310278 aaaaaaaaaattataaaaaaa 18310297

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5557 aaaaaaaaaaacaagtaataaaa 5580
 ||||||||||||||||||
Sbjct: 18801723 aaaaaaaaaaacaagtactaaaa 18801746

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||||| ||||||||||||||||
Sbjct: 19309033 tttttttttaaaaaaaaaaaaaaaca 19309056

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaa 5564
 ||||||||||||||||||
Sbjct: 19641590 aacttttttttaaaaaaaaaaa 19641609

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaaacaagtaataa 5578
 |||||||| |||||||||||||| || |||||
Sbjct: 20960109 ctttttttcataaaaaaaaaaaaaataataa 20960078

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 2138 ctccatttcattcatcctgcttga 2161
 |||||
Sbjct: 21035160 ctccatttcattcatcctgcttga 21035183

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 21168914 ttttttataaaaaaaaaaaaaaaca 21168937

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5543 tgaacttttttttaaaaaaaaaaaa 5566
 |||||
Sbjct: 21836470 tgaagttttttttaaaaaaaaaaaa 21836493

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5333 aaaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 22421390 aaaaaaaattataaaaaaat 22421371

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||
Sbjct: 23879277 aaattaaaaaatatatattt 23879296

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 25208666 ttttttttttgttttgtttt 25208685

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 25973199 ttttttttaaaaaaaaaaaaa 25973180

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 25973184 ttttttttaaaaaaaaaaaaa 25973203

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5536 ttgttattgaactttttttt 5555
 |||||
Sbjct: 29679064 ttgttattgaactttttttt 29679045

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 29851282 aaaaaaaaaattataaaaaaa 29851301

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 32177572 ttttttttaaaaaaaaaaaaa 32177591

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 33828863 ttttttttaaaaaaaaaaaaa 33828844

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 36649611 ttttttttaaaaaaaaaaaaa 36649630

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaa 5568
 |||||
Sbjct: 37579202 ttttttttaaaaaaaaaaaaa 37579221

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                |||||||||||||||||||
Sbjct: 39158535 tttttttttaaaaaaaaaaaaaa 39158516
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6550      aaatagatatgaaattacaa 6569
                |||||||||||||||||||
Sbjct: 39712352 aaatagatatgaaattacaa 39712333
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5333      aaaaaaaattataaaaaaat 5352
                |||||||||||||||||||
Sbjct: 40587633 aaaaaaaattataaaaaaat 40587652
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaaaca 5571
                ||||||||||||||||||| |||
Sbjct: 40827949 tttttttttaaaaaaaaaaaaaacaca 40827926
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 6487      attgaaattaaaaaatatatattt 6510
                ||||| |||||||||||||||
Sbjct: 42304230 attgaagttaaaaaaatatatattt 42304253
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 42484109 tttttttttaaaaaaaaaaaaaa 42484090

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||||||| |||||||||||||||
Sbjct: 42548078 ttttttttataaaaaaaaaaaaaaca 42548101

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 42604929 tttttttttaaaaaaaaaaaaaa 42604910

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||||| |||||
Sbjct: 42604914 tttttttttaaaaaaaaaaagaaca 42604937

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||||| |||||
Sbjct: 43259611 tttttttttaaaaaaaaaaagaaca 43259588

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||||| |||||
Sbjct: 45380773 ttttttttaaaaaaaaaataaaca 45380796

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6199 atgttcattttttttttcaa 6218
 ||||||||||||||||||
Sbjct: 45422984 atgttcattttttttttcaa 45423003

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 45444661 ttttttttaaaaaaaaaaaaaa 45444642

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5324 tatttttgaaaaaaaaatta 5343
 ||||||||||||||||||
Sbjct: 45778473 tatttttgaaaaaaaaatta 45778454

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 46256074 tttttttttaaaaaaaaaaaaaa 46256055

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5333 aaaaaaaattataaaaaaat 5352
 |||||||
Sbjct: 46272414 aaaaaaaattataaaaaaat 46272395

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6295 gtattttttattttttttgtt 6314
 |||||||
Sbjct: 46924387 gtattttttattttttttgtt 46924368

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||||
Sbjct: 47593649 aacttctttttttaaaaaaaaaaaaaa 47593626

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttatt 4777
 |||||||
Sbjct: 48311820 taactgttaatctttttatt 48311839

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||||| ||||||||||||||||
Sbjct: 48406753 tttttttttaaaaaaaaaaaaaaaca 48406776

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6535 aatatttaaattacaaaata 6554
 ||||||| ||||||||||||||||
Sbjct: 48455871 aatatttaaattacaaaata 48455852

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaa 5565
 ||||||| ||||||||||||||||
Sbjct: 48681362 actttttttttaaaaaaaaaa 48681381

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6056 taataaaaaaaaaattaatta 6075
 ||||||| ||||||||||||||||
Sbjct: 49328872 taataaaaaaaaaattaatta 49328853

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 7202 ttgaacaatgcattacacct 7221
 ||||||| ||||||||||||||||
Sbjct: 49401861 ttgaacaatgcattacacct 49401880

Score = 40.1 bits (20), Expect = 6.4
 Identities = 23/24 (95%)
 Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||||||||||||||
 Sbjct: 50103570 tttttttttaaaaaaaaaataaaca 50103547

Score = 40.1 bits (20), Expect = 6.4
 Identities = 20/20 (100%)
 Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||
 Sbjct: 50221582 tttttttttaaaaaaaaaaaaaa 50221563

>[gb|ACUP01000101.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont101, whole genome shotgun

sequence
 Length = 224646

Score = 1608 bits (811), Expect = 0.0
 Identities = 814/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||
 Sbjct: 68992 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 68933

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 ||||||||||||||||||
 Sbjct: 68932 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 68873

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
 ||||||||||||||||||
 Sbjct: 68872 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 68813

Query: 1823 ctctctactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
Sbjct: 68812 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
68753

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 68752 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
68693

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 68692 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
68633

Query: 2003 actttattctcatggttggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 68632 actttattctcatggttggtcttgaccgccaacattctgttcggtacaaaatcgccggt
68573

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 68572 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
68513

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 68512 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
68453

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 68452 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
68393

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 68392 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
68333

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 68332 cattccatataactccgatttgcttctgcttacgcgaaagccatgtgtttctagagctcgt
68273

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 68272 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
68213

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 68212 tctgcaaaaagcatgcatctcggcgctatctcttg 68178

Score = 123 bits (62), Expect = 5e-25
Identities = 122/142 (85%)
Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcacatgcacataataacattagaaatttttagtggtata
5191

|||||
Sbjct: 204768 aaaatttattatgtaaatttacatgtgcattaaatatacattaaaaattttaatgttata
204827

Query: 5192 ttttagtgaaattaattattttataacataattgatgtattagttcagttgggttagagcat
5251

|| || || |||||
Sbjct: 204828 tataacgacattaattattttataatataattagttctattaattcagttgggttagaacat
204887

Query: 5252 tatgttaataatgtgaaagtca 5273

| | |||||
Sbjct: 204888 tgtattaataacgtgaaagtca 204909

Score = 119 bits (60), Expect = 9e-24
Identities = 78/84 (92%)
Strand = Plus / Plus

Query: 4933 tcactgtctctcgacttctctgtcttctcacctgtttcttcagtttacttgattattat
4992

|||||
Sbjct: 27240 tcactgtctctcatacttctctgtcttctcacctgtttcttcagtttacttgattattgt
27299

Query: 4993 tttactttgatacattagccaata 5016

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
              |||
Sbjct: 156938    tttttttttaaaaaaaaaaaaaa 156958
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
||||||| |||||
Sbjct: 91000 aactttttttttaaaaaaaaaaaaaa 90977

>[gb|CM000846.1](#) Glycine max chromosome 13, whole genome shotgun sequence
Length = 44408971

Score = 1608 bits (811), Expect = 0.0
Identities = 814/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 300698 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
300639

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 300638 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
300579

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||||
Sbjct: 300578 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
300519

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctat
1882
|||||||
Sbjct: 300518 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctat
300459

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
|||||||
Sbjct: 300458 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
300399

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 300398 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
300339

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 300338 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgctggt
300279

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 300278 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
300219

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 300218 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatccct
300159

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 300158 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
300099

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 300098 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
300039

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 300038 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
299979

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 299978 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
299919

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 299918 tctgcaaaaagcatgcatctcggcgctatctcttg 299884

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 162698 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
162757

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 162758 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
162817

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 162818 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
162877

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaaggtctattt
1882
|||||
Sbjct: 162878 ctctcactacagagtctaccgggtcgtctctctacatgcccaaaccacctaaggtctattt
162937

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 162938 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
162997

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 162998 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
163057

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttcggtacaaaatcgccgggt
2062
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Sbjct: 163058 actttattctcatgttggctcttgaccgcccacattctgttcggtacaaaatcgccggt
163117

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 163118 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
163177

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 163178 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
163237

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 163238 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
163297

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 163298 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
163357

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 163358 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
163417

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 163418 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggattatgtca
163477

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 163478 tctgcaaaaagcatgcatctcggcgctatctcttg 163512

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 13181239 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
13181298

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 13181299 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
13181358

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 13181359 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
13181418

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 13181419 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
13181478

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 13181479 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
13181538

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 13181539 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
13181598

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 13181599 actttattctcatggttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
13181658

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 13181659 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
13181718

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 13181719 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
13181778

Query: 2183 tcaattttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 13181779 tcaattttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
13181838

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 13181839 ataatatgggtctcctattttcacctttgagttagaaaccctccttcttttggtgaactta
13181898

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 13181899 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
13181958

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 13181959 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
13182018

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 13182019 tctgcaaaaagcatgcatctcggcgctatctcttg 13182053

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 44269593 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
44269652

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 44269653 tcaagtaccatactttctatccaaaccattaatttcgagatcctttttgataacctctctt
44269712

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 44269713 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
44269772

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 44269773 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
44269832

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 44269833 tccatcatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
44269892

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 44269893 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
44269952

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 44269953 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
44270012

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 44270013 ctactgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
44270072

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 44270073 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
44270132

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 44270133 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
44270192

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 44270193 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
44270252

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 44270253 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
44270312

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 44270313 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
44270372

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 44270373 tctgcaaaaagcatgcatctcgggtgctatctcttg 44270407

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 1688637 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1688696

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 1688697 tcaagtaccataacttctatccaaatcattaagttcgagatcctttttgataacctctctt
1688756

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 1688757 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1688816

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 1688817 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1688876

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 1688877 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1688936

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 1688937 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1688996

Query: 2003 actttattctcatggttggtcttggaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 1688997 actttattctcatggttggtcttggaccgccaacattctgttccgtacaaaatcgccggt
1689056

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 1689057 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
1689116

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 1689117 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
1689176

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 1689177 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
1689236

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 1689237 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaaactta
1689296

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

Sbjct: 1689297 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
1689356

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

Sbjct: 1689357 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
1689416

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

Sbjct: 1689417 tatgcaaaaagcatgcatctcggcgctatctcttg 1689451

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

Sbjct: 5139384 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
5139325

Query: 1703 tcaagtaccataacttctatccaaaccatttaatttcgagatcctttttgataacctctctt
1762

Sbjct: 5139324 tcaagtaccataacttctatccaaaccatttaatttcgagatcctttttataacctctctt
5139265

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

Sbjct: 5139264 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
5139205

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 5139204 ctctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagtctattt
5139145

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

|||||

Sbjct: 5139144 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
5139085

Query: 1943 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 5139084 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgctacacct
5139025

Query: 2003 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 5139024 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
5138965

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 5138964 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
5138905

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 5138904 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
5138845

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 5138844 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
5138785

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 5138784 ataatatggtctcctattttcacctctaagttagaaaccctccttcttttggtgaactta
5138725

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 5138724 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
5138665

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 5138664 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
5138605

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||||||||||||||||||||||||||||
Sbjct: 5138604 tctgcaaaaagcatgcatctcggcgctatctcttg 5138570

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
||||||||||||||||||||||||||||||||
Sbjct: 30421213 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
30421154

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
||||||||||||||||||||||||||||||||
Sbjct: 30421153 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
30421094

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
||||||||||||||||||||||||||||||||
Sbjct: 30421093 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctgggtctact
30421034

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
||||||||||||||||||||||||||||||||
Sbjct: 30421033 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
30420974

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
||||||||||||||||||||||||||||||||
Sbjct: 30420973 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcca
30420914

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2002
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2062

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2122

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30420734

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 30420733 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
30420674

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 30420673 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
30420614

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 30420613 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
30420554

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 30420553 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
30420494

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 30420493 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
30420434

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 30420433 tctgcaaaaacatgcatctcggcgctatctcttg 30420399

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 38458998 aacgccttatcccactaggtggggctcggctacatggatcaacttccgctcataatgttcta
38458939

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 38458938 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
38458879

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 38458878 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
38458819

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 38458818 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
38458759

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 38458758 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
38458699

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 38458698 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctacgctacaccg
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Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 38458638 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
38458579

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 38458578 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
38458519

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 38458518 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
38458459

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 38458458 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
38458399

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 38458398 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
38458339

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 38458338 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
38458279

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 38458278 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
38458219

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 38458218 tctgcaaaaagcatgcatctcggcgctatctcttg 38458184

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 41504927 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
41504868

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 41504867 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
41504808

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 41504807 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
41504748

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 41504747 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
41504688

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 41504687 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
41504628

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 41504627 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41504568

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 41504567 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
41504508

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 41504507 cttaccgtagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
41504448

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 41504447 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
41504388

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 41504387 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
41504328

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 41504327 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
41504268

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 41504267 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41504208

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 41504207 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatatca
41504148

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 41504147 tctgcaaaaagcatgcatctcggagctatctcttg 41504113

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 13481904 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
13481963

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 13481964 tcaagtaccatacttctatccaaatcatttagttcgagatcctttttgataacctctctt
13482023

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 13482024 atagtctttttgggtattcctctgacctgaattgtttgtcttctctccatctggtctact
13482083

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 13482084 ctctcactacagagtctatcggtcttctctctacatgcccaaaccacctaagtctattt
13482143

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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13482203

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 13482204 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
13482263

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 13482264 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
13482323

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 13482324 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
13482383

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 13482384 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
13482443

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 13482444 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
13482503

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 13482504 ataatatgggtctcctatattttcacctctgagttagaaaccctccttcttttgttgaactta
 13482563

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 13482564 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 13482623

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 13482624 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 13482683

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 13482684 tctgcaaaaagcatgcatctcggcgctatctcttg 13482718

Score = 1568 bits (791), Expect = 0.0
 Identities = 809/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 1430529 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1430470

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 1430469 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
 1430410

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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 Sbjct: 1430409 atagtctttttgggtcttcctctgcctcgaatagttgtcttctctccatctgggtctact
 1430350

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

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 1430290

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 1430289 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1430230

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 1430229 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1430170

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 1430169 actttattctcatgttggtcttgaccgccaacattttgttccgtacaaaatcgtcggt
1430110

Query: 2063 cttaccgcagtcggataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 1430109 cttaccgcagtcggataaaaactttccctttagcttgatcggtacctttgcatcacataac
1430050

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 1430049 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
1429990

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 1429989 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
1429930

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 1429929 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
1429870

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

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1429810

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 1429809 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
1429750

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 17490071 aacgccttatccactaggtaggggtcggctacatggatcaacttccgccataatgttcta
17490012

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 17490011 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
17489952

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 17489951 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
17489892

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctattt
1882

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Sbjct: 17489891 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctattt
17489832

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 17489831 ttcaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
17489772

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 17489771 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
17489712

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 17489711 actttattctcatggttggtccttgaccaccaacattctgttccgtacaaaatcaccggt
17489652

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 17489651 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
17489592

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 17489591 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
17489532

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 17489531 tcaatttccccatcatcctgtattatagaccaagatatattaaaccgtgtgacttgaggg
17489472

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaacta
2302

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Sbjct: 17489471 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaacta
17489412

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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17489352

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 17489351 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
17489292

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 23324845 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
23324786

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 23324785 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
23324726

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 23324725 atagtctttttgggtcttcctctgcctcaaattgtttgtcttctctccatctgggtctact
23324666

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882
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Sbjct: 23324665 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
23324606

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
1942
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Sbjct: 23324605 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
23324546

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 23324545 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
23324486

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 23324485 actttattctcatgttgggtctttgaccgccaatattctgttccgtacaaaatcgccgggt
23324426

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 23324425 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
23324366

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 23324365 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
23324306

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 23324305 tcaatttccccatcatcctgtattacaaaccaagatatattaaaccgtgtgacttgaggg
23324246

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 23324245 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
23324186

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 23324185 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
23324126

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 23324125 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
23324066

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 23324065 tctgcaaaaagcatgcatctcggcgctatctcttg 23324031

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

Sbjct: 25764368 acccccgatgcttttctccatttcattcatcctgcttgaatgcgatgattcacatccct
 25764309

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 25764308 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 25764249

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 25764248 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 25764189

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 25764188 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 25764129

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 25764128 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 25764069

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 25764068 tctgcaaaaagcatgcatctcggcgctatctcttg 25764034

Score = 1568 bits (791), Expect = 0.0
 Identities = 809/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 29388403 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
 29388462

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 29388463 ttaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 29388522

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 29388523 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
29388582

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

|||||
Sbjct: 29388583 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
29388642

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 29388643 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
29388702

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 29388703 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29388762

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 29388763 actttattctcatgttgggtcttgactgcccacattctgttccgtacaaaattgccggt
29388822

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 29388823 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
29388882

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 29388883 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
29388942

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 29388943 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
29389002

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 29389003 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
29389062

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 29389063 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
29389122

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 29389123 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29389182

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 29389183 tctgcaaaaagcatgcatctcggcgctatctcttg 29389217

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 30157618 aacgccttatcccactaggtggggtcggctacatgggtcaacttccgccataatgttcta
30157559

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 30157558 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
30157499

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 30157498 atagtctttttgggtcttcctttgcctcgaattgtttgtcttctctccatctgggtctact
30157439

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagttctat
1882

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Sbjct: 30157438 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctatgt
30157379

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 30157378 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
30157319

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 30157318 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
30157259

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 30157258 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
30157199

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 30157198 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
30157139

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 30157138 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
30157079

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 30157078 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
30157019

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 30157018 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
30156959

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 30156958 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
30156899

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 30156898 ctccaagtttccaacctctcattcaactcctcccttgactctccaaggaggactatgtca
30156839

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 30156838 tctgcaaaaagcatgcatctcggcgctatctcttg 30156804

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 5424352 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
5424293

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 5424292 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
5424233

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 5424232 atagtctttttgggtcttcctctgcctcgaattgtttgcctcctctccatctgggtctact
5424173

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 5424172 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5424113

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggtttcta
1942

|||||
Sbjct: 5424112 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggtttcta
5424053

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 5424052 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
5423993

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 5423992 actttagtctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
5423933

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 5423932 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
5423873

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 5423872 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
5423813

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 5423812 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5423753

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 5423752 ataatatggtctcctattttccctctgagttagataccctcctacttttgttgaactta
5423693

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

|||||
Sbjct: 5423692 cattccatatactccgatttgcttctgcttaggtgaaagccatgtgttctagagctcgt
5423633

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 5423632 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
5423573

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 5423572 tctgcaaaaagcatgcatctcggcgctatctcttg 5423538

Score = 1529 bits (771), Expect = 0.0
Identities = 801/811 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 22297798 aacgccttatctcactaggtggggtcggctacatggatcaacttccgccataatgtttta
22297857

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 22297858 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
22297917

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 22297918 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
22297977

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 22297978 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
22298037

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 22298038 tccaccatcttctctacaataggcactactccatccctctctctaataagcttcgtttcta
22298097

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 22298098 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
22298157

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||

Sbjct: 22298158 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
22298217

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 22298218 cttaccgcagtcgaataaaaactttcccttagcttgatcggtatctttgcatcacataac
22298277

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 22298278 acccccgatgcttttctccatttcatccatcctacttgaatgcatgattcacatccct
22298337

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 22298338 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
22298397

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 22298398 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
22298457

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 22298458 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
22298517

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 22298518 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
22298577

Query: 2423 tctgcaaaaagcatgcatctcggcgctatct 2453

|||||
Sbjct: 22298578 tctgcaaaaagcatgcatctcggcgctatct 22298608

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%), Gaps = 5/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 26229456 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
26229397

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 26229396 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
26229337

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 26229336 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
26229277

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 26229276 ctcttactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
26229217

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 26229216 tccaccatcttctctacaataggcgctactccgaccctctctctaatagttcgtttcta
26229157

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 26229156 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
26229097

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 26229096 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
26229037

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 26229036 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
26228977

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 26228976 acccccgatgcttttctccatttcatctatcctgcttgaatgcgatgattcacatccct
26228917

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 26228916 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
26228857

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 26228856 ataatatgggtctcctattttcacctctgagt-----accctccttcttttgttgaactta
26228802

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 26228801 cattccatataactttgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
26228742

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 26228741 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
26228682

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 26228681 tctgcaaaaagcatgcatctcggcgctatctcttg 26228647

Score = 1521 bits (767), Expect = 0.0
Identities = 803/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 40952673 aacgccttatcccactaggtgaggttggctacatggatcaacttctgccataatgttcta
40952614

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 40952613 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacttctctt
40952554

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 40952553 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40952494

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

|||||
Sbjct: 40952493 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctattt
40952434

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 40952433 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
40952374

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 40952373 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctaccct
40952314

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 40952313 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
40952254

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 40952253 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40952194

Query: 2123 accccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|
Sbjct: 40952193 atcccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
40952134

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 40952133 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 40952074

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 40952073 ataatatggtctcatattttcacctctgagttagaaactctccttcttttgttgaactta
 40952014

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 40952013 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 40951954

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 40951953 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 40951894

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 40951893 tctgcaaaaagcatgcatctcggcgctatctcttg 40951859

Score = 1503 bits (758), Expect = 0.0
 Identities = 800/814 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 1327712 aacgccttatcccactaggtggggctcggctacatggatcaacttccaccataatgttcta
 1327771

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 1327772 tcaagtaccataacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 1327831

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 1327832 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
 1327891

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 1327892 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1327951

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

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Sbjct: 1327952 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1328011

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 1328012 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1328071

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 1328072 actttagtctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
1328131

Query: 2063 cttaccgcagtcgcgataaaaactttcccttagcttgatcggtaccttgcatcacataac
2122

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Sbjct: 1328132 cttaccgcagtcgcgataaaaactttcccttagcttgatcggtaccttgcatcacataac
1328191

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 1328192 actcccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
1328251

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 1328252 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
1328311

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 1328312 ataatatggtctcctattttccactctgagttagataccctcctacttttggtgaactta
1328371

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 1328372 cattccatataacttcgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
1328431

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 1328432 ctccaagtttgcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
1328491

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctctt 2456

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Sbjct: 1328492 tctgcaaatagcatgcatctcggcgctatctctt 1328525

Score = 1449 bits (731), Expect = 0.0
Identities = 794/815 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 26241835 aacgccttatcccactaggtggggtcgactacatggatcaacttccgtcataatgttcta
26241894

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 26241895 tcaagtaccatacttctatccaaatcattaagttcgaggtccttcttgataacctctctt
26241954

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 26241955 ataatctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
26242014

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 26242015 ctctcactacagagtctaccggttttctctctacatgcccacacctaagtctattt
26242074

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 26242075 tccaccatcttatctacaataggcgctactccaaccctctctctaataagctccgtttcta
26242134

Query: 1943 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 26242135 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccactacacct
26242194

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 26242195 actttagtctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccagt
26242254

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 26242255 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
26242314

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 26242315 acccccgatgcttttctccatttcatcaatcctgcttgaatgcgatgattcacatccct
26242374

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 26242375 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
26242434

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 26242435 ataatatggtctcctattttcacctctgagttagataaccctcctacttttggtgaactta
26242494

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 26242495 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
26242554

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 26242555 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
26242614

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 26242615 tctacaaaaagcatgcatctcggcgctatctcttg 26242649

Score = 1102 bits (556), Expect = 0.0
Identities = 577/584 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 25741823 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
25741882

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 25741883 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
25741942

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 25741943 atagtctttttgggtcttctctgcctcaaattgtttgtcttctctccatctgggtctact
25742002

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 25742003 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
25742062

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 25742063 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
25742122

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 25742123 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25742182

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 2062
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 Sbjct: 25742183 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 25742242

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122
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 Sbjct: 25742243 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 25742302

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182
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 Sbjct: 25742303 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 25742362

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatattttaa 2226
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 Sbjct: 25742363 tcaatttctctatcatcctgtattacagactcaagatattttaa 25742406

Score = 1027 bits (518), Expect = 0.0
 Identities = 530/534 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
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 Sbjct: 41819370 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 41819429

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
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 Sbjct: 41819430 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 41819489

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
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 Sbjct: 41819490 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 41819549

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

Sbjct: 41819550 |||||
 41819609 ctctcactacaaagtctaccggtcttctctctacatgcccaaaccacctaagtctattt

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

Sbjct: 41819610 |||||
 41819669 tccaccattttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

Sbjct: 41819670 |||||
 41819729 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct

Query: 2003 actttattctcatggtgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

Sbjct: 41819730 |||||
 41819789 actttattctcatggtgggtcttgaccgccaacattctgttccgtacaaaatcgccggt

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 2122

Sbjct: 41819790 |||||
 41819849 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcaca 2176

Sbjct: 41819850 |||||
 41819903 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcaca

Score = 977 bits (493), Expect = 0.0
 Identities = 516/521 (99%), Gaps = 2/521 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

Sbjct: 30254736 |||||
 30254795 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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Sbjct: 30254796 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
 30254855

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 30254856 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 30254915

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 30254916 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 30254975

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

|||||
 Sbjct: 30254976 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 30255035

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 30255036 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 30255095

Query: 2003 actttattctcatggtgggtcttgaccgccaacattctgttcggtacaaaatcgccgggt
 2062

|||||
 Sbjct: 30255096 actttattctcatggtgggtcttgaccgccaacattctgttcggtacaaaatcggtcggt
 30255155

Query: 2063 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 30255156 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 30255215

Query: 2123 acccccgatgcttttctcc-atttcatccatcctgcttgaa 2162

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 Sbjct: 30255216 acccccgatgc-tttctccaatttcatccatcctgcttgaa 30255255

Score = 938 bits (473), Expect = 0.0
 Identities = 488/493 (98%)
 Strand = Plus / Minus

Query: 1965 cacacatccaccgcaacatcctcatctccgctacacctactttattctcatggttggtctc
2024

|||||
Sbjct: 25814031 cacacatccaccgcaacatcctaatactccgctacacctactttattctcatggttggtctc
25813972

Query: 2025 tgaccgcccacatttctgttccgtacaaaatcgccggtcttaccgcagtcggataaaact
2084

|||||
Sbjct: 25813971 tgaccgcccacatttctgttccgtacaaaatcaccggtcttaccgcagtcggataaaact
25813912

Query: 2085 ttcccttttagcttgatcggtacctttgcatcacataacacccccgatgcttttctccatt
2144

|||||
Sbjct: 25813911 ttcccttttagcttgatcggtacctttgcatcacataacacccccgatgcttttctccatt
25813852

Query: 2145 tcatccatcctgcttgaatgcgatgattcacatccccttcaatttccccatcatcctgta
2204

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Sbjct: 25813851 tcatccatcctgcttgaatgcgatgattcacatccccttcaatttccccatcatcctgta
25813792

Query: 2205 ttacagacccaagatattttaaacggtgtgacttgagggataaatatggtctcctattttca
2264

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Sbjct: 25813791 ttacagacccaagatattttaaacggtgtgacttgagggataaatatggtctcctattttca
25813732

Query: 2265 cctctgagttagaaaccctccttcttttgttgaacttacattccatatactccgatttgc
2324

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Sbjct: 25813731 cctctgagttagataccctccttcttttgttgaacttacattccatatactccgatttgc
25813672

Query: 2325 ttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctcat
2384

|||||
Sbjct: 25813671 ttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctcat
25813612

Query: 2385 tcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcg
2444

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Sbjct: 25813611 tcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcg
25813552

Query: 2445 gcgctatctcttg 2457
 |||||
Sbjct: 25813551 gcgctatctcttg 25813539

Score = 934 bits (471), Expect = 0.0
Identities = 495/503 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||
Sbjct: 28229737 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
28229796

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||
Sbjct: 28229797 tcaagtattatacttctatccaaaccattaatttcgagatccttttttataacctctctt
28229856

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
 ||
Sbjct: 28229857 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
28229916

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
 ||
Sbjct: 28229917 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
28229976

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
 ||
Sbjct: 28229977 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
28230036

Query: 1943 attttatcctgtcaggtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 ||
Sbjct: 28230037 attttatcctgtcaagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
28230096

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
 |

Sbjct: 28230097 atttttattctcatgttggctcttgaccgcccacattctgttcggtacaaaaatcgtcggt
28230156

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 28230157 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
28230216

Query: 2123 acccccgatgcttttctccattt 2145
|||||

Sbjct: 28230217 acccccgatgcttttctccattt 28230239

Score = 926 bits (467), Expect = 0.0
Identities = 470/471 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 17244889 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17244948

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

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Sbjct: 17244949 tcaagtaccatacttttatccaaaccattaatttcgagatcctttttgataaacctctctt
17245008

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 17245009 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
17245068

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtcattt
1882

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Sbjct: 17245069 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtcattt
17245128

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 17245129 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
17245188

Query: 2088 cctttagcttgatcggtacctttgcatcacataacacccccgatgctttttctccatttca
2147

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Sbjct: 37767595 ccttttagcttgatcggtacctttgcatcacataacatccccgatgcttttctccatttca
37767654

Query: 2148 tccatcctgcttgaatgcatgattcacatcccccttcaatttcccatcatcctgtatta
2207

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Sbjct: 37767655 tccatcctgcttgaatgtgatgattcacatcccccttcaatttcccatcatcccgtatta
37767714

Query: 2208 cagaccaagatatttaaaccgtgtgacttgagggataaatatggtctcctattttcacct
2267

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Sbjct: 37767715 cagaccaagatatttaaaccgtgtgacttgagggataaatatggtctcctattttcacct
37767774

Query: 2268 ctgagttagaaaccctccttcttttggtgaacttacattccatataactccgatttgcttc
2327

|||||
Sbjct: 37767775 ctgagttagaaaccctccttcttttggtgaacttacattccatataactccgatttacttc
37767834

Query: 2328 tgcttaggcgaaagccatgtgt 2349
|||||
Sbjct: 37767835 tgcttaggcgaaagtcatgtgt 37767856

Score = 904 bits (456), Expect = 0.0
Identities = 474/480 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 15592700 aacgccttatctcactaggtggggtcggctacatggatcaacttccgccataatgttcta
15592759

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 15592760 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
15592819

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 15592820 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
15592879

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 15592880 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
15592939

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 15592940 ttcaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
15592999

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 15593000 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
15593059

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 15593060 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
15593119

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 15593120 cttaccgcagtcgataaaaactttccctttagcttgatcggtacttttgcatcacataac
15593179

Score = 791 bits (399), Expect = 0.0
Identities = 402/403 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 29489277 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
29489336

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

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Sbjct: 29489337 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
29489396

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 29489397 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
29489456

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882
|||||
Sbjct: 29489457 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
29489516

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
|||||
Sbjct: 29489517 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
29489576

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 29489577 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29489636

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttc 2045
|||||
Sbjct: 29489637 actttattctcatgttgggtcttgaccgccaacattctgttc 29489679

Score = 724 bits (365), Expect = 0.0
Identities = 401/413 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 40083936 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
40083877

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 40083876 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
40083817

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

Sbjct: 40083816 |||||
 40083757 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
 1882

Sbjct: 40083756 |||||
 40083697 ctcctcactacagagtctaccagtcttctctctatatgtccaaaccacctaagtctattt

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
 1942

Sbjct: 40083696 |||||
 40083637 tccaccatcttctctacaataggcgctactccaaccctctctctaataactccgtttcta

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

Sbjct: 40083636 |||||
 40083577 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaat 2055

Sbjct: 40083576 |||||
 40083524 actttagtctcatgttgactcttgaccgcccacattctgttccgtacaaaat

Score = 720 bits (363), Expect = 0.0
 Identities = 397/407 (97%), Gaps = 1/407 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

Sbjct: 25814537 |||||
 25814478 aacgccttatccactaggtgggggtcgattacatggatcaacttccgccataatgttcta

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

Sbjct: 25814477 |||||
 25814418 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
 1822

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Sbjct: 25814417 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
25814358

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

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Sbjct: 25814357 ctctcattacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
25814298

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 25814297 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
25814238

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 25814237 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25814178

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgta 2049
|||||

Sbjct: 25814177 actttattctcatgttgggtcttgaccgccc-acattctgttccgta 25814132

Score = 698 bits (352), Expect = 0.0
Identities = 355/356 (99%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
1705

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Sbjct: 22646314 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
22646255

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

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Sbjct: 22646254 agtaccatacttctatccaaaccattaatttcgagatccttttttataacctctcttata
22646195

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctactctc
1825

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Sbjct: 22646194 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctactctc
22646135

Query: 1826 ctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
1885
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Sbjct: 22646134 ctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
22646075

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttctaatt
1945
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Sbjct: 22646074 accatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttctaatt
22646015

Query: 1946 ttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacc 2001
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 22646014 ttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacc
22645959

Score = 484 bits (244), Expect = e-133
Identities = 247/248 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 9735344 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
9735285

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 9735284 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
9735225

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822
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Sbjct: 9735224 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
9735165

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 9735164 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
9735105

Query: 1883 tccaccat 1890

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Sbjct: 9735104 tccaccat 9735097

Score = 442 bits (223), Expect = e-121
Identities = 232/235 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 28736044 aacgccttatcccactaggtggagtcggctacatggatcaacttccgccataatgttcta
28735985

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 28735984 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
28735925

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 28735924 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
28735865

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtc 1877

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Sbjct: 28735864 ctctcactacagagtctaccgggtcttctctctacatgtccaaaccacctaagtc
28735810

Score = 339 bits (171), Expect = 5e-90
Identities = 185/189 (97%), Gaps = 3/189 (1%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 37767169 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
37767228

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 37767229 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
37767288

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 37767289 ---gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
37767345

Query: 1823 ctctctcact 1831

|||||
Sbjct: 37767346 ctctctcact 37767354

Score = 289 bits (146), Expect = 4e-75
Identities = 158/162 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 9230630 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
9230689

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 9230690 tcaagtatcatacttctatccaaatcattaagttcgagatcctttttataacctctctt
9230749

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtctt 1804

|||||
Sbjct: 9230750 atagtctttttgggtcttcctctgcctcgaattgtttgtctt 9230791

Score = 248 bits (125), Expect = 1e-62
Identities = 156/165 (94%), Gaps = 1/165 (0%)
Strand = Plus / Minus

Query: 1644 acgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctat
1703

|||||
Sbjct: 37332955 acgccttatcccactaggtggg-tcgactacatggatcaacttccgccataatgttctat
37332897

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
1763

|||||

Sbjct: 37332896 caagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctta
37332837

Query: 1764 tagtctttttgggtcttcctctgcctcgaattgtttgtcttctct 1808
|||||
Sbjct: 37332836 tagtctttttggatcttcctctgtctcaaattgtttatcttctct 37332792

Score = 218 bits (110), Expect = 1e-53
Identities = 317/383 (82%), Gaps = 6/383 (1%)
Strand = Plus / Minus

Query: 7377 ttggccttaaaacacacatgacaaatatttttattataaaacaaacacccagtatacaa
7436
|||||
Sbjct: 11457430 ttgggcttaaaacacacatggcgattatttttattataaaacaaacacttagtaatacaa
11457371

Query: 7437 caatgaacaacacacatgacaaactacaaatcattaaataatacaattacaatcaaataat
7496
|||||
Sbjct: 11457370 caataaatagcacatatgatgactataaatcattaaataataaaataaaaatcaaataat
11457311

Query: 7497 ttggggaggggggtcttcaaaacttgattcaagggtcattgtatcatcgaggatattcaccc
7556
|||
Sbjct: 11457310 ttagag---gggtcttcaaaactcaattcaagggtcattgtttcatcgaactatttatca
11457254

Query: 7557 aaaccctccaaattcaaagagcttgacagaaactgggtgg-tggttgtgcatatgtttatgt
7615
|||
Sbjct: 11457253 aaatcctcaaaattcaacgagcttgacagaaattgggtgggtgggtgggttatgcacatgt
11457194

Query: 7616 --gggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaagagtttccca
7673
|
Sbjct: 11457193 ttgtgtgtgtctgcagtagtaagatataacttaatccatgtcaggttgaaggggtgccca
11457134

Query: 7674 aatatagaaaacatagtaattatttcctcatcatcttgacgcatacatgccctgtactga
7733
|||||
Sbjct: 11457133 aatatagaaagcatagcaattatttcctcttcatttgacagtatgtatgctctgtactga
11457074

Query: 7603 catatgtttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagtta
7662

Sbjct: 27463342 aaattttaatggtatatataacgcacatgaattatttcataatataattgggtctattagttc
27463401

Query: 4757 ataactgttaatctttttattgataccgtaa-taataattaataagtaataattttttat
4815
|||

Sbjct: 6981665 ataactattaatctttttattggtaccgtaagtaacaattaatgagaaacaatttttcac
 6981724

Query: 4816 caatatcatagctttggttagaaaaaaagagatttaataattaatagctaaagaaatcca
 4875

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 Sbjct: 6981725 caatattataactttgattagaaaaaa-gagatttaataagttaattgttaaagaaactca
 6981783

Query: 4876 aaagtttttcttttatttttattttgttcctattcaattctaattttgtcatttttt-tc
 4934

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 Sbjct: 6981784 aaaacttttcttttatttatattctcttcctattcaattttaattttgtctttttttctt
 6981843

Query: 4935 actgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgattattattt
 4994

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 Sbjct: 6981844 accctctctcatatttttctgtcttctcatccgcttcttcaatttacttgattattgttt
 6981903

Query: 4995 tactttgatacattagccaataa 5017

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 Sbjct: 6981904 cattttgacacattagtcataa 6981926

Score = 170 bits (86), Expect = 3e-39
 Identities = 196/232 (84%), Gaps = 13/232 (5%)
 Strand = Plus / Plus

Query: 4757 ataactgttaatctttttattgataccgtaa-taataattaataagtaataattttttat
 4815

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 Sbjct: 6234704 ataattgttaatctttttattggtaccgtaagtaacaattaatgaacaataatttttcac
 6234763

Query: 4816 caatatcatagctttggttagaaaaaaagagatttaataattaatagctaaagaaatcca
 4875

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 Sbjct: 6234764 taatatcatagctttggttagaaaaaaagagatttaataagttaatagctaaagaaactca
 6234823

Query: 4876 aaagtttttcttttatttttattttgt-----tcctattcaattctaattttgtca
 4926

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 Sbjct: 6234824 aaaactattcttttattttcattttctttattctcttcctattcaattttaattttgtct
 6234883

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Query: 5297      attaatnttttaaattaatttgtaaaatatatttt 5329
                |||
Sbjct: 4384319 attaatnttttaaattaattcgtaaaacatatatttt 4384287
```

Score = 169 bits (85), Expect = 1e-38
Identities = 124/137 (90%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
6575
||||||| ||||||||| || ||||| ||| ||||||| |||||
Sbjct: 17323827 acaagttgaattgaactaaaatatttaaagtataaaatacatataaaattaccaacaata
17323886

Query: 6576 gaacaaaatatttaaatttgaaataatacaacaaaaattttaaaatacaaacaatatggc
6635
||||||| ||||||||| ||||||||| ||||||||| |||||
Sbjct: 17323887 aaacaaaatatttaaatttgaaagaatacaacaaaatgtttaaaatacaaacaatatgac
17323946

Query: 6636 ataaaaattaatggttgtt 6652
||||| ||| |||||
Sbjct: 17323947 ataaatttaacggttgtt 17323963

Score = 165 bits (83), Expect = 2e-37
Identities = 137/155 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176
||||||| ||| ||||| ||||||| ||| || ||||||||| |||
Sbjct: 4384700 aaaattaattgtcataaaatatattttaaatttacatgtccattaaataacattaaa
4384759

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||| ||||||| ||||||| ||||||||| ||||| ||| |||||
Sbjct: 4384760 aatttttagtggttatatatagtgatattaattattttataacataattggtctattagttc
4384819

Query: 5237 agttgggttagagcattatgttaataatgtgaaagt 5271
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Sbjct: 4384820 agttgggttagagggtcgctgctaataatgtgaaagt 4384854

Score = 165 bits (83), Expect = 2e-37
Identities = 191/227 (84%)

Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 5706261 aaaattaattgtgacaaaatttattatttaaatttacatgcacattaaatatacattata
5706320

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

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Sbjct: 5706321 aaatttaattatgtataacaacattatttattttataatataattgatttattaactt
5706380

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

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Sbjct: 5706381 agttgggttagaacattatattaataacctaagttatgttcgatttttacttggatc
5706440

Query: 5297 attaatTTTTaaattaatttGTaaaatatatttttGaaaaaaaaatta 5343

||||| ||||| |||| | ||||| ||||| |||||
Sbjct: 5706441 attaatTTTTaaatttcGtaatagatatttttttaaaaaaatta 5706487

Score = 165 bits (83), Expect = 2e-37
Identities = 131/147 (89%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175

|||||
Sbjct: 20455942 aaaaattaattatcacaaaatttattatataaatttacatgtgcattaaatatacattag
20456001

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

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Sbjct: 20456002 aaatttttagtggttatatatagcgacattaattattttataacataattgggtctattagct
20456061

Query: 5236 cagttgggttagagcattatgttaataa 5262

||||| ||||| |||| | |||||
Sbjct: 20456062 cagttgattagagcattgtgctaataa 20456088

Score = 165 bits (83), Expect = 2e-37
Identities = 186/219 (84%), Gaps = 1/219 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| ||||||||||| ||||||||||| ||||| || ||||| |||||||||||
Sbjct: 37613435 aaaattaattgtcacaaaatttattatctaaatttacatgcgcatataaaatacattaga
37613376

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||| || | ||||||||||| ||||||| | ||||| ||
Sbjct: 37613375 aattttagtggttatatataacaacattaattattttataatataattgggtctattaattc
37613316

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 | ||| ||||| ||||||||||| ||||||| | ||||||| | ||||| |
Sbjct: 37613315 aattgattagaatattatggttaataatgcaaaagtcataaggttcaatttctgcttgggcc
37613256

Query: 5297 a-ttaatttttaaattaatttgtaaaatatatttttgaaa 5334
 | ||||||||||| ||||||| ||||||| |||||
Sbjct: 37613255 atttaatttttaaattaggttgtaaaacatatatttatgaaa 37613217

Score = 163 bits (82), Expect = 6e-37
Identities = 184/218 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| | ||||||||||| ||||||| |||| | ||||||||||| |
Sbjct: 13206473 aaaattaattgtcataaaaatttattatttaaatttacatgtgcattaaatacattaaa
13206414

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||| ||||||| ||||||||||| ||||||||||| ||||| ||
Sbjct: 13206413 aattttagtggttatatagtgacattaattattttataacataattgggttattaactc
13206354

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 | ||||||| |||||| | ||||||| ||||||| | ||| ||||| | ||| |
Sbjct: 13206353 aattggtttgagcatcgtgctaataatatgaaagtcataaggttgattcatgcatgagcc
13206294

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaa 5334
 ||||||||||||||||| ||||| | |||||||||
Sbjct: 13206293 attaatttttaaattaatttcgtaaaacacatttttgaaa 13206256

Score = 161 bits (81), Expect = 3e-36
Identities = 192/228 (84%), Gaps = 2/228 (0%)
Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490
 ||||| ||||| | ||||||||||||| | |||||||| | ||| ||||| ||| |||||
Sbjct: 8496457 atacagcaatgcaaaacacacatgacgaatacaaatcgттаagtaataaaatagcaatca
8496516

Query: 7491 aataatttgggga--gggggtcttcaaaacttgattcaagggttcattgtatcatcgaggt
7548
 ||||| ||||| | ||||||||||||||| ||||||||||||||| ||||| |||||
Sbjct: 8496517 aataaattgggggaggggggtcttcaaaactcgattcaagggttcattgcttcatcaagggt
8496576

Query: 7549 attcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtggttgatcatatg
7608
 ||||| ||||||||||||||||| | |||||| | ||||| | |||||||| ||| || |||
Sbjct: 8496577 attcatccaaaccctccaaattgacagagctggtagaaattagtgggtggatgttcacatg
8496636

Query: 7609 tttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtga 7656
 || ||||| ||||||||| ||| ||| ||| ||||| |||||||||
Sbjct: 8496637 ttagtgtggtgtgtgtctacagtggtaatatataactccaggcatgtga 8496684

Score = 161 bits (81), Expect = 3e-36
Identities = 196/233 (84%), Gaps = 1/233 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||| ||||||||||||| ||||||| ||| || |||||||||||||
Sbjct: 34643707 aaaattaattgtcacaaaatttattatttaaatttatatgtgcattaaatatacattaga
34643766

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||| | |||| | |||| | ||||||||||||| ||||||| |||||||||

Sbjct: 34643767 aatTTtagtgTtatgtatagtaacattatTTtattTTtataacgtaattgacttattagttc
34643826

Query: 5237 agttggTtagagcattatgttaataatgtgaaagTcaaaagttcaattcttacttggatc
5296

||||| ||||| | || | ||||| ||| ||| ||| ||||| ||||| ||
Sbjct: 34643827 agttgattagaacgttgTgctaataacTgatagccacaggTTtgattcttGtttggtc
34643886

Query: 5297 attaatTTTaaattaatttGtaaaatatatTTTtGaaaaaaaaattataaaaa 5349

||||| ||||| ||||| ||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34643887 attaatTTTaaattaatttGtcacaaata-tTTTaaaaaaaaattataaaaa
34643938

Score = 159 bits (80), Expect = 1e-35
Identities = 179/212 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaaTTtattatctaaatttgcTgcacataaatatacattaga
5176

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8259747 aaaattaattgtcacaaaaTTtattattTaaatttacatgtgtattaaatatacattaaa
8259806

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTtataacataattgatgtattagttc
5236

||||| ||||| ||||| ||| | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8259807 aatTTtagtattatatataacaacattatTTtattTaaacataattgacatattagttc
8259866

Query: 5237 agttggTtagagcattatgttaataatgtgaaagTcaaaagttcaattcttacttggatc
5296

|||| ||||| |||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8259867 agttagttagaacattgtgctaataacTtgaaagTcataggTTtgattcttactttgacc
8259926

Query: 5297 attaatTTTaaattaatttGtaaaatatattt 5328

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8259927 attaatTTTaaattaattcGtaatacatattt 8259958

Score = 159 bits (80), Expect = 1e-35
Identities = 161/188 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 |||||
 Sbjct: 27846669 aaaattaattgtcacaaaatttattatctaaatttatatgtgcattaaatgcattaaa
 27846610

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 27846609 aatttttagtggttatatataataatattaattattttataacataattgatataattagcta
 27846550

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 27846549 agttggtagagtatcgtggttaacaatgcgaaagtcacatgtttaatttctgcttgggtc
 27846490

Query: 5297 attaattt 5304
 |||||
 Sbjct: 27846489 attaattt 27846482

Score = 159 bits (80), Expect = 1e-35
 Identities = 119/132 (90%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 |||||
 Sbjct: 38359226 aaaattaattgtcataaaaatttattatgtaaattatcatgtgcattaaatatacattaga
 38359167

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 38359166 aatttttagtggttatatatagtgacatgaattattttataacataattgacctattagttc
 38359107

Query: 5237 agttggtagag 5248
 |||||
 Sbjct: 38359106 agttggtagag 38359095

Score = 157 bits (79), Expect = 4e-35
 Identities = 118/131 (90%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||

Sbjct: 23420462 aaaattaattggttacaaaatttattatctaaatttacatgtgcactaaatatacattaga
23420403

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||

Sbjct: 23420402 aatttcattattatatatagtgacattaattattttataacacaattgatctattagctc
23420343

Query: 5237 agttgggttaga 5247

|||||

Sbjct: 23420342 agttgattaga 23420332

Score = 155 bits (78), Expect = 2e-34
Identities = 193/228 (84%), Gaps = 5/228 (2%)
Strand = Plus / Minus

Query: 7058 actaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttc
7117

|||||

Sbjct: 11474231 actaagaatcgtgtgttgcatcgattgaactcaagaacaatgtgagagtttgtttttctc
11474172

Query: 7118 tgtatgtctttcatagccttggttaataacttttgataaaacttcaccaaagtgaatcact
7177

|||

Sbjct: 11474171 tgtgtgtcttccatagccttggttagtacttggtgataaaacttggt-agatctaatacgt
11474113

Query: 7178 cttgcgacttctctcccccttgggtgaacaatgcattacacctagtatagggttgatttt
7237

|||||

Sbjct: 11474112 --tgcgacttctctcttttcttgggtgaacaatgtattacaccttttatagggttgatttt
11474055

Query: 7238 accaacaca--cattgccagattttgtgttttcttgagtaccaaatta 7283

|||||

Sbjct: 11474054 accaacacatttattggcaaatttcgtgttttcttgagttccaaatta 11474007

Score = 151 bits (76), Expect = 2e-33

Sbjct: 37634061 aaagcttttcttttattttattctcttcctattgaattctaattttgtttttttttctc
37634002

Sbjct: 5082241 aatcttttcttttatttctattctctttattcccttcctattcaattctaattctgtctt
 5082182

Query: 4928 -ttttttcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgat
 4986

|||| ||| |||||||| || |||| |||||||||| || || || ||||||||||||
 Sbjct: 5082181 cttttctcattgtctctcataattctttgtcttctcacatgcttttttagtttacttgat
 5082122

Query: 4987 tattattttactttgatacattagccaata 5016

|||| ||| |||||||| ||||||||||||
 Sbjct: 5082121 tattgtttcactttgacacattagccaata 5082092

Score = 145 bits (73), Expect = 1e-31
 Identities = 184/221 (83%), Gaps = 5/221 (2%)
 Strand = Plus / Plus

Query: 5120 attaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaat
 5179

||||||||| |||||||||||| | ||||| |||| || ||||||||||||||||
 Sbjct: 8231566 attaattgtaacaaaatttatttatatgaatttacatgtgcattaaatatacattagaaat
 8231625

Query: 5180 tttagtgttatatttagtgaaattaattattttataacataattgatgtattagttcagt
 5239

|||||||||| | |||| | |||| ||||||||||| ||||||| ||||| |||||
 Sbjct: 8231626 tttagtgttatgtatagtaacattatttattttataatataattgactcattagctcagt
 8231685

Query: 5240 tggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgatcatt
 5299

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 Sbjct: 8231686 tggtagatcattgtgctaataatatgaaagt-----gttcgagtccttgctttgaccatt
 8231740

Query: 5300 aattttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340

||||| ||||||||| || | |||||||| |||||||||
 Sbjct: 8231741 aatttcaaattaattcgtcacaaatatattttcaaaaaaaaaa 8231781

Score = 145 bits (73), Expect = 1e-31
 Identities = 142/165 (86%)
 Strand = Plus / Minus

Query: 5178 attttagtgttatatttagtgaaattaattattttataacataattgatgtattagttca
5237

Query: 5238 gttggttagagcattatgttaataatgtgaaagtcaaaagttcaa 5282

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

Query: 5177 aat t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

Query: 5297 attaatTTTaaattaatTTgtaaaatatTTTTTgaaaaaaaaa 5340

Score = 143 bits (72), Expect = 6e-31
Identities = 129/148 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176

||||| || ||||||||||||||||||| || ||||||| ||||||| |||||
Sbjct: 42185471 aaaattaatcggtcacaaaatttattatctaactttacatgcacattaaatatatataaa
42185530

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| ||||||||||| || ||||| ||||||||||||||||||| ||||||| |||||
Sbjct: 42185531 aaatttagtggttacatatagtgacattaattattttataacataattatcctattaattc
42185590

Query: 5237 agttggttagagcattatgttaataatg 5264
| ||||||||||| || |||||||||||
Sbjct: 42185591 aattggttagagtatcatgttaataatg 42185618

Score = 141 bits (71), Expect = 2e-30
Identities = 182/219 (83%)
Strand = Plus / Minus

Query: 5120 attaattggttacaaaatttattatctaaatttgcatacacaataaatatacattagaaat
5179

||||| | ||||||||||| ||||| ||||| | ||||||||||| |||||
Sbjct: 5679193 attaattgtcaaaaaatttattattcaaatccatgtatagtaaataacattataaat
5679134

Query: 5180 ttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcagt
5239

||||| ||||| ||||| | ||||| || ||||||| ||||||| ||||||| |||||
Sbjct: 5679133 ttttagtattatatatagtaataattatttactttataataattgacttattagctcaat
5679074

Query: 5240 tgggttagagcattatgttaataatgtgaaagtcaaaagttcaattccttacttggatcatt
5299

||||| ||||| | || ||||||| ||||||| ||||||| || ||||| |||||
Sbjct: 5679073 tgggttagagcgtcataactaataatgcaaaagtcatttgggtcaactcctacttgagtcatt
5679014

Query: 5300 aatttttaaattaatttgtaaaatatatttttgaaaaaaa 5338

||||| ||||||| ||||||| |||||
Sbjct: 5679013 aatttttaaattaatttgtaaagcatatttttgaataaaa 5678975

Score = 141 bits (71), Expect = 2e-30

```
Query: 5117      aaaattaattgttacaaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176            |||
Sbjct: 33335113 aaaattaatcgtcataaaaattttattatctaaatttacattgtacgttaaataacattaga
33335054
```



```
Query: 7749      aatgat 7754
          |||||
Sbjct: 694281   aatgat 694276
```

Sbjct: 36316420 aaatttattatgtaaatttacatgtacattaaatatacgttataaatttttagtggtatat
36316479

Query: 5193 ttagtgaaattaattattttataacataattgatgtattagttcagttggtagagcatt
5252

||||| ||||||| ||||||| ||||||| ||| || |||||
Sbjct: 36316480 atagtgcattaattattttataatataattgacttattagctcatttagtttagagcatt
36316539

Query: 5253 atgttaata 5261

|||||
Sbjct: 36316540 gtgttaata 36316548

Score = 137 bits (69), Expect = 4e-29
Identities = 99/109 (90%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| ||||||| ||||||| ||||||| ||| || |||||
Sbjct: 38359249 aaaattaattgttacaaaatttattatgtaaatttacatgtgcattaaatatacattaga
38359308

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225

||||| ||||||| ||| | ||||||| |||||
Sbjct: 38359309 aattttactgttatatatagttacattaattatttaataacataattga 38359357

Score = 137 bits (69), Expect = 4e-29
Identities = 117/133 (87%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175

||||| ||| | ||||||| ||||||| ||||||| ||| || ||||| |||||
Sbjct: 39717758 aaaaattaattatcacaaaatttattatataaatttacatagcattaaatatattag
39717699

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

||||| ||||||| ||||||| ||||||| ||||| |||
Sbjct: 39717698 aaatttttagtggttatatatagtgacattaattaatttataacataattgggtctattagat
39717639

Query: 5236 cagttggtagag 5248

||||| |||||
Sbjct: 39717638 cagttgattagag 39717626

Score = 137 bits (69), Expect = 4e-29
Identities = 105/117 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||| | | |||||||||||||||||||||||||||| || ||||||||||||||||
Sbjct: 42185270 aaaattaactatcacaaaatttattatctaaatttgcattgacataaatatacattaga
42185211

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattag
5233

|||||||||||||||| || || |||||||||||||||||||||||||||| | |||||
Sbjct: 42185210 aatttttagtggttatataaacgacattaattattttataacataattgggtttattag
42185154

Score = 135 bits (68), Expect = 1e-28
Identities = 68/68 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 28105064 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
28105123

Query: 1703 tcaagtac 1710
|||||||
Sbjct: 28105124 tcaagtac 28105131

Score = 135 bits (68), Expect = 1e-28
Identities = 128/148 (86%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175

|||||||||||||| |||||||||||||||||||||||| |||| || |||||||| |||||
Sbjct: 40187847 aaaaattaattgtcacaaaatttattatctaaatttgcattgacataaatatattag
40187906

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235
||||| ||||||| || | ||||||| ||||||| || |||||||
Sbjct: 40187907 aaatTTtattgTtatatatagcaacattaattatTTTataacataattaacctattagct
40187966

Query: 5236 cagttggTtagagcattatgttaataat 5263
| ||| ||||||| || |||||
Sbjct: 40187967 taattgggtagagcattgtgtcaataat 40187994

Score = 133 bits (67), Expect = 6e-28
Identities = 110/123 (89%), Gaps = 1/123 (0%)
Strand = Plus / Minus

Query: 6518 aagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaataga
6577
||||| ||||| ||||||| || ||||||| ||||||| ||||||| |||||||
Sbjct: 11474588 aagttgaattgaagaaaaatatttaa-ttataaaatagatataaaattacaaacaataga
11474530

Query: 6578 acaaaatattttaaatttgaaataatacaacaaaaattttaaaatacaaaacaatatggcat
6637
| ||||||| ||||| ||||||| || ||||||| ||||||| ||||||| |||||
Sbjct: 11474529 ataaaatattttaaattagaaacaatacaacgaagttttaaaatacaaaacaatatgacat
11474470

Query: 6638 aaa 6640
|||
Sbjct: 11474469 aaa 11474467

Score = 133 bits (67), Expect = 6e-28
Identities = 117/133 (87%), Gaps = 3/133 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||| ||||||| ||||||| ||||||| ||||| || ||||||| |||||||
Sbjct: 44336968 aaaattaattgtcacaaaatttattttaaatttacatgcgcattaaatatacattaga
44337027

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
||||| ||||||| || | ||| ||||||| ||||||| ||||| ||

Query: 4877 aaqtttttcttttatttttatt 4898

```
|||||
Sbjct: 27571650 aagtttttcttttatttctatt 27571671
```

Score = 131 bits (66), Expect = 2e-27
Identities = 130/150 (86%), Gaps = 1/150 (0%)
Strand = Plus / Plus

```
Query: 5124 attgttacaaaatttattatctaaatttgcacataaatatacattagaaatttta
5183
```

```
|||||
Sbjct: 27738521 attgtcacaaaattcattatctaaatttaaagcacactaaatatacattagaaaattta
27738580
```

```
Query: 5184 gtgttatatttagtgaaattaattattttataacataattgatgtattagttcagttggt
5243
```

```
|||||
Sbjct: 27738581 gtgttacatatggagacattaattattttataacataattgat-tattaacttagttggt
27738639
```

```
Query: 5244 tagagcattatgttaataatgtgaaagtca 5273
```

```
|||||
Sbjct: 27738640 tagagtgttgattattaataatgcgaaagtca 27738669
```

Score = 131 bits (66), Expect = 2e-27
Identities = 106/118 (89%), Gaps = 1/118 (0%)
Strand = Plus / Plus

```
Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
```

```
|||||
Sbjct: 39072270 aaaattaattgttacaaaatttattatctaaatttacatgcgtattaaagatatatta-a
39072328
```

```
Query: 5177 aatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagt
5234
```

```
|||||
Sbjct: 39072329 aatttttagtgttacatatagtgacattaattattttataacataattaatttattagt
39072386
```

Score = 129 bits (65), Expect = 9e-27
Identities = 65/65 (100%)
Strand = Plus / Minus

[illegible]

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176

|||||
Sbjct: 31968271 aaaattaattgtcacaaaatttattatgtaaatttatatgtgtattaaataacattaga
31968212

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 31968211 aatttttagtattatatataaggatattaattattttataacataattaatttattaactc
31968152

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattccttacttggatc
5296

|
Sbjct: 31968151 aattgggttaaagcggttatgctgataacgcaaaaatcataagtttgattcctgcatgaacc
31968092

Query: 5297 attaatttttaaattaatttgtaaaatat 5324
|||||
Sbjct: 31968091 attaatttttaaattaattcctaaaatat 31968064

Score = 127 bits (64), Expect = 3e-26
Identities = 115/132 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176

|||||
Sbjct: 38736198 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaataacattaaa
38736139

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 38736138 aatttttagtattatatataacgacattaattattttataacataattgacctattaactt
38736079

Query: 5237 agttggtagag 5248

|||||
Sbjct: 38736078 agttggtagag 38736067

Score = 125 bits (63), Expect = 1e-25
Identities = 178/215 (82%), Gaps = 1/215 (0%)
Strand = Plus / Minus

Query: 5304 ttaaattaatttqtaaaatatatTTTTTgaaaaaaaaattataaaaaa 5349

|||||
Sbjct: 27462999 ttaaattaattgtgtaaaacata--tttgaaaaaaaaaatttaaaaa 27462956

Score = 123 bits (62), Expect = 5e-25
Identities = 98/109 (89%), Gaps = 2/109 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 27738434 aaaattaattattacaaaatttattatctaaatttacatgtacattaaatatattaca
27738375

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225

|||||
Sbjct: 27738374 aatttttagtggtata--tagtaacattaattattttataatataattga 27738328

Score = 121 bits (61), Expect = 2e-24
Identities = 184/223 (82%), Gaps = 4/223 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 5619417 aaaattaattgtcacaa--tttattatttaaatttatatgtgcattaaatatatattaaa
5619360

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 5619359 aatttttagtggttatatataacaacattatttattttataacataattggactattagctc
5619300

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 5619299 agttgggttagagcattgtgctaataatttgaaagttacagatttgactcctgcttgggcc
5619240

Query: 5297 attaatTTTTaaattaatttGTaaaatatattttgaaaaaaaaa 5339

|||||
Sbjct: 5619239 attaatTTTTaaattaattcGTaaa--acatttttgaaaaaaaaa 5619199

Score = 119 bits (60), Expect = 9e-24
Identities = 114/132 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||||| | |||||||||||| |||||| ||| | |||||| |||||||
Sbjct: 21637273 aaaattaattgtcataaaatttattatgtaaatttacatgtgtattaaatatgcattaga
21637214

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||||||||||||| | || || |||||||||||||||| |||||| | |||| |
Sbjct: 21637213 aatttttagtgttatatataatgacattaattattttataatataattaatttattaactt
21637154

Query: 5237 agttggtagag 5248
 ||||||||||||
Sbjct: 21637153 agttggtagag 21637142

Score = 119 bits (60), Expect = 9e-24
Identities = 114/132 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||| || |||||||||||||||| |||| || ||| | ||||||||||||||||
Sbjct: 27656227 aaaattaattatttcaaaatttattatgtaaacttatatgtatattaaatatatacattaga
27656286

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||||||||||||| | || || |||||||||||| |||||||||| | |||| |
Sbjct: 27656287 aatttttagtgttatatatattgatgttaattattttttaacataattggtctattagacc
27656346

Query: 5237 agttggtagag 5248
 ||||||||||||
Sbjct: 27656347 agttggtagag 27656358

Score = 119 bits (60), Expect = 9e-24
Identities = 96/108 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
|||||
Sbjct: 42947439 aaaattaattgtcacaaaatttattatttaaatttacatacacattaaatatacattaga
42947380

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224
|||||
Sbjct: 42947379 aatttttagtggttatgtataacaatattattttattttataacataattg 42947332

Score = 117 bits (59), Expect = 3e-23
Identities = 188/231 (81%)
Strand = Plus / Minus

Query: 5121 ttaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatt
5180
|||||
Sbjct: 8259393 ttaattatcacaaaatttattatttaaatttatatgcgcattaaatattcattagaaatt
8259334

Query: 5181 ttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcagtt
5240
|||||
Sbjct: 8259333 ttagtggttacgtataacaatattattttattttaaaacataattggcccatctaactcagct
8259274

Query: 5241 ggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcatta
5300
|||||
Sbjct: 8259273 ggtagagcggttggtgctaataacctaataattacaggttgattcttatttgaaccatta
8259214

Query: 5301 attttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351
|||||
Sbjct: 8259213 attttaaattaattcgtaacacatatatttttgaaaaaaaaattataaaaaaa 8259163

Score = 117 bits (59), Expect = 3e-23
Identities = 118/137 (86%), Gaps = 3/137 (2%)
Strand = Plus / Minus

Query: 6881 cgtatacacagaatgtatgtagttcctatactcatgggtgagcatgcttataaaca---ac
6937
|||||

Sbjct: 12543325 cgtatacacaggatatatgtagttcttgtactcatgggtgagcatgcttacaagcagaaac
12543266

Query: 6938 aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
6997

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 12543265 aacatgagaacaaggcatatgcaatttttggaaatttacaacagtcacaccacctttcatc
12543206

Query: 6998 tagcttgaccatgaaat 7014
| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 12543205 cagcttgaccatgaaat 12543189

Score = 117 bits (59), Expect = 3e-23
Identities = 113/131 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 14478025 aaaattaattatcacaaaatttattatgttaaatttataatctgcattaaatatacattaaa
14478084

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 14478085 aatttttagtgttatatataacaacattaattattttataacataattgacctattagctc
14478144

Query: 5237 agttgggttaga 5247
| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 14478145 agttgggttaga 14478155

Score = 113 bits (57), Expect = 5e-22
Identities = 147/177 (83%)
Strand = Plus / Plus

Query: 5132 aaaattttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggttata
5191

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 458642 aaaattttattatgttaaatttacatctgcattcaatatacattagatatttttagtattata
458701

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaataacattag
5175
 ||||| || ||||| ||| | ||||| ||| | ||||| |||||
Sbjct: 30738322 aaaaattaatcgtcacaaaattcattttgttaaatttacatgtgcattaaataacattag
30738263

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 ||||| ||||| ||||| || || ||||| ||||| ||||| | ||||| |
Sbjct: 30738262 aaatttttagtggttatataacgatattaactattttataatataattgggtctattagct
30738203

Query: 5236 cagttgggtagag 5248
 ||||| |||||
Sbjct: 30738202 tagttgggtagag 30738190

Score = 113 bits (57), Expect = 5e-22
Identities = 114/133 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 37735309 aaaattaattgtgataaaaatttattatttaaatttacatacgcatataacattaga
37735250

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 37735249 aatttttagtggttatgtatagcaacattattttatttgaacgtaattgggttcattagctc
37735190

Query: 5237 agttgggtagagc 5249
 ||||| |||||
Sbjct: 37735189 agttgggtagagc 37735177

Score = 113 bits (57), Expect = 5e-22
Identities = 123/146 (84%), Gaps = 8/146 (5%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39072076 aaaattaattatcacaaaatttattatctaaatttacatg-----atatacactaaa
39072025

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236

|||||
Sbjct: 39072024 aatttttagtggttatataataacgatattaattatttttataatataattaatttattagttc
39071965

Query: 5237 agttggtagagcattatgttaataa 5262

|||||
Sbjct: 39071964 agttggtagaacgtaggttaataa 39071939

Score = 111 bits (56), Expect = 2e-21
Identities = 95/108 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 26246659 aaaatgaattgtcacaaaatttattatgtaaatttacacgtgcattaaatatattaga
26246718

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattg 5224

|||||
Sbjct: 26246719 aatttttagtggttatatagcgatattaattattttatgacataattg 26246766

Score = 111 bits (56), Expect = 2e-21
Identities = 113/132 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 33781279 aaaattaattgtcacaaaatttattatctaaatttacatgtacattaaatatatattaaa
33781220

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236

|| |||
Sbjct: 33781219 aaattttgtattatatatatcgacattaattatttttataatataattgacttattaatta
33781160

Query: 5237 agttggtagag 5248

|
Sbjct: 33781159 aattggtagag 33781148

Score = 109 bits (55), Expect = 8e-21
Identities = 103/119 (86%)
Strand = Plus / Minus

Query: 5169 acattagaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacataattgatgt
5228
||||| ||| ||||||||||||| || || ||||||||||||||||||||||| |||
Sbjct: 34211153 acattaaaaaTTtagtgTTtatataaacgacattaattTTTTataacataattaatct
34211094

Query: 5229 attagttcagttggTTtagagcattatgTTaataatgtgaaagtcaaaagttcaattctt
5287
|||| ||||||| ||||||||||||| ||||| ||||||| | ||||| ||||
Sbjct: 34211093 attaattcagttgattagagcattatgCTaataacCTgaaagtcacatgttcaaattctt
34211035

Score = 107 bits (54), Expect = 3e-20
Identities = 111/130 (85%)
Strand = Plus / Plus

Query: 5119 aattaattgTTacaaaTTTattatCTaaTTTgcatgcacaataaatatacattagaaa
5178
|||| ||||| | ||||||||||||| ||||||| |||| || |||||||||||||||||
Sbjct: 1136062 aattgattgtcaaaaaTTTattattTaaTTTacatgtgcattaaatatacattagaaa
1136121

Query: 5179 tTTtagtgTTtatTTtagtgaaattaattTTTTataacataattgatgtattagttcag
5238
|||| ||||||| || | ||||||||||||||||||||||||| ||||| |||
Sbjct: 1136122 tTTtattgTTtatataacaacattaattTTTTataacataattggTctattaatttag
1136181

Query: 5239 ttggTTtagag 5248
||| |||||
Sbjct: 1136182 ttgattagag 1136191

Score = 107 bits (54), Expect = 3e-20
Identities = 117/138 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176

|||||
 Sbjct: 2380740 aaaattaattgtcacaaaatttattatctaaataacatgcgcattaaacatacattaaa
 2380799

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 2380800 aatttttagtggttacatatagagatatattaattattttaaatcataattaccctattaactc
 2380859

Query: 5237 agttggtagagcattat 5254
 |
 Sbjct: 2380860 aattggtagagcattat 2380877

Score = 107 bits (54), Expect = 3e-20
 Identities = 123/146 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176

|||||
 Sbjct: 28011227 aaaattaattgtcataaaaatttattatttaaattacatgagtattaaatacattaaa
 28011168

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 28011167 aatttttagtggttatgtatagtaacattattttattttaaaataaattaacctactagttc
 28011108

Query: 5237 agttggtagagcattatgttaataa 5262
 |||||
 Sbjct: 28011107 agttggtagactattgtgttaataa 28011082

Score = 107 bits (54), Expect = 3e-20
 Identities = 163/198 (82%), Gaps = 1/198 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176

|||||
 Sbjct: 29329372 aaaattaattgttacaaaatttattatataaaacttatatgtgcattaaatatattaaa
 29329313

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 29329312 aattttaatggttctatatagcgacattaattattttataatataattggtatattaagtc
29329253

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

| || ||||||||| | | ||||||| ||||||||| | || | | ||| |||||||
Sbjct: 29329252 a-tttgtagagcattgtatcaataatacgaaagtcacatatttgagtttgcattggatc
29329194

Query: 5297 attaatTTTaaattaatt 5314

|||||||
Sbjct: 29329193 attaatTTTaaattaatt 29329176

Score = 107 bits (54), Expect = 3e-20
Identities = 139/166 (83%), Gaps = 1/166 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

||||||| | ||||||||| ||||||| |||| | | ||||||| |||| |
Sbjct: 33559680 aaaattaattatcacaaaatttattatttaaatttacatgcgcattaaatataatataaa
33559739

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||| | ||||||| || | |||| ||||||||| ||||||| || |||||||
Sbjct: 33559740 aatttaa-tgttatataatacaatattatttattttataacataatttatctattagttc
33559798

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaa 5282

| ||||||| || ||||||||| | |||||| | |||||
Sbjct: 33559799 atttggtagaattttgtgttaataatataaaaagtcacatgttcaa 33559844

Score = 107 bits (54), Expect = 3e-20
Identities = 109/126 (86%), Gaps = 1/126 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

||||||| ||| ||||||| | |||| | | ||| ||||||| |||| |


```
Query: 5177      aat ttt agt gtt ata ttt agt gaa att aatt at ttt tata acata att gat gt att agt tc  
5236            ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 38766388 aat ttt agt gtt at gt ata aca ac att at tt t at ttt tata at ata att gg ttt att ag ttt  
38766447
```


Query: 5237 agttgggta 5245
 |||||
 Sbjct: 38766448 agttgggta 38766456

Score = 105 bits (53), Expect = 1e-19
 Identities = 131/157 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 |||||
 Sbjct: 40323912 aaaattaattattataaaaatttattatataaaatttacacgtgaattaaataacattaga
 40323971

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 40323972 aatttttagtattatatatagaaacattaattattttataataataatctattaactc
 40324031

Query: 5237 agttgggtagagcattatggttaataatgtgaaagtca 5273
 |||||
 Sbjct: 40324032 agttgattagagtacgggtactaataatgtgaaagtca 40324068

Score = 103 bits (52), Expect = 5e-19
 Identities = 112/132 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 |||||
 Sbjct: 9168775 aaaattaattggttacaaaatttattatgtaaacttatatgtgtattaaataacattaaa
 9168716

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 9168715 aaatttagtggttatataaacaacattaattattttttaacatgattgacctattagttt
 9168656

Query: 5237 agttgggtagag 5248
 |||||
 Sbjct: 9168655 agttgggtagag 9168644

Score = 103 bits (52), Expect = 5e-19
 Identities = 112/132 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| |||||||||||||||| ||| || || | ||||||||||||| |
 Sbjct: 9168889 aaaattaatcattacaaaatttattatgtaaacttagatgtgtattaaatatacattaaa
 9168948

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 || ||||||||||||| ||||| ||||||||||||| || ||||||||| ||||| ||
 Sbjct: 9168949 aaatttagtggttatatatagtgatattaattattttttaataaattgattcattagctc
 9169008

Query: 5237 agttgggtagag 5248
 ||||| |||||
 Sbjct: 9169009 agttgattagag 9169020

Score = 103 bits (52), Expect = 5e-19
 Identities = 130/156 (83%)
 Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
 5177
 |||||||||||||||| || |||| | |||| |||| || ||||||||| |||| ||
 Sbjct: 26246443 aaattaattgttacaaaatttgttatggtgatttacatgtgcattaaatataatataaaa
 26246384

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
 5237
 |||||||| ||||| || || ||||||||||||||||||||||||||||| |||| | |
 Sbjct: 26246383 attttagtattatatatagcgacattaattattttataacataattgacctattaactta
 26246324

Query: 5238 gttgggtagagcattatgttaataatgtgaaagtca 5273
 ||||||||||| | | |||||||||||||||||
 Sbjct: 26246323 attggtagagcgtggtactaataatgtgaaagtca 26246288

Score = 103 bits (52), Expect = 5e-19

Identities = 112/132 (84%)
Strand = Plus / Minus

Query: 5121 ttaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaatt
5180
 ||||||||||||||| ||||||| ||||||| |||| | ||||||| |||||||
Sbjct: 29244591 ttaattggttacaaaacttattatttaaatttacatgtgcattaaatataaattagaaatt
29244532

Query: 5181 ttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcagtt
5240
 ||| | |||||| | | |||| ||||||||||| ||||||| ||||||| |||||||
Sbjct: 29244531 ttactattatatacaacaacattatttattttataatataattgatttattagctcagtt
29244472

Query: 5241 ggtagagcatt 5252
 ||||||| ||||
Sbjct: 29244471 ggtagaacatt 29244460

Score = 103 bits (52), Expect = 5e-19
Identities = 130/156 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||| ||||||| ||||||| ||||||| |||| | ||||||| |||||||
Sbjct: 30429279 aaaattaattgtcacaaaaattattatgtaaatttacatgtgcgttaaatacattaga
30429220

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 || ||||||| |||||| ||| | ||| || ||||||| |||||| | |||||| ||
Sbjct: 30429219 aaatttagtgctatatatagcaatatttatctttttataatataattaacctattagctc
30429160

Query: 5237 agttggtagagcattatgttaataatgtgaaagtc 5272
 | ||||||||||| |||| |||||| |||||||
Sbjct: 30429159 aattggtagagcggttatgctaataacgtgaaagtc 30429124

Score = 103 bits (52), Expect = 5e-19
Identities = 100/116 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| ||| ||||| ||||| ||||| ||| || ||||| ||||| |
Sbjct: 34000395 aaaattaattattataaaaatttattatttaaatttatatgcgcattaaatatacattaaa
34000336

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
|| ||||| ||||| || | ||| ||||| ||||| ||||| |||||
Sbjct: 34000335 aaatttagtggttatataacaatattattttattttataacataattgatctatta
34000280

Score = 101 bits (51), Expect = 2e-18
Identities = 93/107 (86%)
Strand = Plus / Minus

Query: 6561 aaattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaaaattttaaaa
6620
||||| |||| | ||||| ||||| ||||| || ||||| ||||| |||||
Sbjct: 12543657 aaattaccaacaaaaaaacaaaatatttaaatttgaaacaaaacaacaaaaattttaaaa
12543598

Query: 6621 tacaaacaatatggcataaaaattaatggttggtggcctgagcctacac 6667
||||| || ||| ||||| | || ||||| ||||| |||||
Sbjct: 12543597 tacaaagaacatgacataaattcaacattggttggtgagcctacac 12543551

Score = 101 bits (51), Expect = 2e-18
Identities = 112/131 (85%), Gaps = 1/131 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| ||||| ||||| ||||| ||| |||| | || || ||||| |||||
Sbjct: 24448088 aaaattaattgttacaaaatttactatttaaacttatatatgtattaaatatatattaga
24448029

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||| ||||| || || || ||||| ||||| ||||| ||||| |||||
Sbjct: 24448028 aatttttagtattatatatac-gatattaattattttataatataattgacctattagttc
24447970

Query: 5237 agttgggttaga 5247
|||||
Sbjct: 24447969 agttgggttaga 24447959

Score = 99.6 bits (50), Expect = 8e-18

Identities = 53/54 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataat 1696
|||||
Sbjct: 12621473 aacgccttatcccactaggtggggctcggctacatggatcaacttccgctcataat
12621420

Score = 99.6 bits (50), Expect = 8e-18
Identities = 113/132 (85%), Gaps = 4/132 (3%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 27662777 aaaattaattgtcaaaaaatttattatttaaattt--atgcacattaattatacattaga
27662720

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 27662719 aatttttagtggtata--taacaacattatttattttataatataattggtctattaattc
27662662

Query: 5237 agttgggtagag 5248
|
Sbjct: 27662661 aattgggtagag 27662650

Score = 99.6 bits (50), Expect = 8e-18
Identities = 95/110 (86%), Gaps = 5/110 (4%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 28875418 aaaattaattatcacaaaatttattatctaaatttacatgcgcattaaatatacattaga
28875359

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgat 5226
|||||
Sbjct: 28875358 aatttta-----atattacatgacattaattattttataatataattgat 28875314

Score = 99.6 bits (50), Expect = 8e-18
Identities = 132/158 (83%), Gaps = 1/158 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| || ||||| ||||| || || ||||| ||||| |
Sbjct: 29725876 aaaattaatagtcacaaaatttattatgttaatttacatgtgcatcaaataatgcattaaa
29725817

Query: 5177 aatttttagtggttatatttag-tgaaattaattattttataacataattgatgtattagtt
5235
 ||||| | ||||| || || ||||| ||||| ||||| ||||| |||||
Sbjct: 29725816 aatttcaatggttatataataactgacattaattattttataacataattgacttattagtt
29725757

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtca 5273
 ||||| || ||||| || ||||| ||
Sbjct: 29725756 gagttgggttagagtatcgtgttattaacctgaaagtca 29725719

Score = 99.6 bits (50), Expect = 8e-18
Identities = 68/74 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 32540582 aaaattaattattacaaaatttattatttaaatttacatgcacattaaatatacattaaa
32540641

Query: 5177 aatttttagtggttat 5190
 ||||| |||||
Sbjct: 32540642 aattttaatggttat 32540655

Score = 97.6 bits (49), Expect = 3e-17
Identities = 100/117 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| || ||||| ||||| ||||| || || ||||| ||||| |
Sbjct: 72750 aaaattaattgtcataaaaatttattatgttaaatttacatgtgcattaaatatacattaaa
72691

Query: 5177 aatTTtagtgTtataTTtagtgaaattaattatTTTataacataattgatgtattag 5233
 ||||| | |||| | | || ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 72690 aatTTtaataTTatacatggagacattaattatTTTataacataattggTctattag 72634

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 100/117 (85%)
 Strand = Plus / Minus

Query: 5131 caaaatTTattatctaattTgcatgcacaataataacattagaaatTTtagtgTtat
 5190
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 1135965 caaaatTTattatTTtaaattTacaTatacattaaatatataTTaaaaatTTtattgTtat
 1135906

Query: 5191 atttagtgaaattaattatTTTataacataattgatgtattagTtcagTtggttaga 5247
 || || || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 1135905 atataacgacattaattatTTTataataataatctattaattcagTtgattaga
 1135849

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 151/180 (83%), Gaps = 5/180 (2%)
 Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataataca-attacaatc
 7489
 ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 17163176 atacaacaacaaaaaacacacatgaaaactaaaaatcatgaaataataaacataacaatc
 17163235

Query: 7490 aaataatTTggggagggggt--cttcaaaacttgattcaaggTtcattgtatcatcgagg
 7547
 ||| ||||| ||| | ||||| || ||||| ||||| ||||| ||||| |||||
 Sbjct: 17163236 aaaaaatTTggg-aggcTTTTtcttcaaagctcaattcaaggTtcattgcttcgtcaagg
 17163294

Query: 7548 tattcacccaaaccctccaaattcaaagagcttgcaaaaactggTggTggTgtgcatat
 7607
 |||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 17163295 tattcttccaaaccctccaaattccaagagcttgca-aaattggtagTggTgtgcatat
 17163353

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 141/171 (82%), Gaps = 3/171 (1%)

Strand = Plus / Plus

Query: 5115 aaaaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacat
5174

Sbjct: 24448161 aaaaaataattggttataaaaatttattatgttaaagt---atgtgtattaaatatacat
24448217

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
5234

Sbjct: 24448218 gaaattttagtggtgtatataacgacattaattattttataacataattgacttattagc
24448277

Query: 5235 tcagttggtagagcattatggttaataatgtgaaagtcaaaagttcaattc 5285

Sbjct: 24448278 tcaattggatagagtgttggtgctaataacgcgaaagttagaggttcaattc 24448328

Score = 95.7 bits (48), Expect = 1e-16
Identities = 96/112 (85%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221

Sbjct: 72758 taaatatacatataaaaaatttttagtattgtatatagtgacattgattattttataatataa
72817

Query: 5222 ttgatgtattagttcagttggtagagcattatggttaataatgtgaaagtca 5273

Sbjct: 72818 ttggtctattagtttagttggttaaagtgttatggttaataatcttaaagtca 72869

Score = 95.7 bits (48), Expect = 1e-16
Identities = 111/132 (84%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacat
5175

Sbjct: 919442 aaaaattaattatcacaaaatttattatctaaatttatatgtgtattaaatataatata
919501

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

Score = 95.7 bits (48), Expect = 1e-16
Identities = 85/96 (88%), Gaps = 1/96 (1%)
Strand = Plus / Minus

Score = 95.7 bits (48), Expect = 1e-16
Identities = 129/155 (83%), Gaps = 2/155 (1%)
Strand = Plus / Plus

```
Query: 5237      agttgggttagagcattatgttaataatgtgaaagt 5271
                ||| | | | | | | | | | | | | | | | | | | |
Sbjct: 33803654 agttqqttagaagtgcattgttaataatatgaaagt 33803688
```

Score = 95.7 bits (48), Expect = 1e-16
Identities = 106/124 (85%), Gaps = 1/124 (0%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacatag-a
5176
|||||
Sbjct: 39378870 aaattaattgtcacaaaatttattatttaaatacatgacgcttaaatatacatagaa
39378929

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 39378930 aatttttagtggttatataatacaacattgtttattttataacataattgagctattagctc
39378989

Query: 5237 agtt 5240
||||
Sbjct: 39378990 agtt 39378993

Score = 95.7 bits (48), Expect = 1e-16
Identities = 162/200 (81%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5175
|||||
Sbjct: 43192688 aaaaattaattatcccaaaaatttattatgtaaatttacatctgcattaaatacatag
43192747

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
|
Sbjct: 43192748 atatttttagtattatatataacgacattaattaattttataacataattgggtttattaact
43192807

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295
||||
Sbjct: 43192808 aagttagtttagagtggtgtactaataacgcaaaagtcacatatttgattcttgattggac
43192867

Query: 5296 catataatttttaaatatttt 5315
|||||
Sbjct: 43192868 catataatttttaaatatttt 43192887

Score = 93.7 bits (47), Expect = 5e-16
Identities = 104/123 (84%)
Strand = Plus / Plus

Query: 7633 taacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacatagtaa
7692
 ||||| ||||| |||| ||| |||| ||| ||| ||||| |||| ||||| |
Sbjct: 17163379 taacatataactcaatgcatatgaggttgtggagcttctcaaataagtaaaatatagtta
17163438

Query: 7693 ttatttcctcatcatcttgcagcatacatgccctgtactgaaaacaatcaccaacaaatg
7752
 |||| |||||||||||||||| || | |||||||| |||| ||||||||||||||||
Sbjct: 17163439 ttatgtcctcatcatcttgccgcttgcagcctataactaaaaacaatcaccaacaaatg
17163498

Query: 7753 ata 7755
 |||
Sbjct: 17163499 ata 17163501

Score = 93.7 bits (47), Expect = 5e-16
Identities = 77/87 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 ||||| |||| ||| |||| ||||| ||| || ||||| ||||||||||||||||
Sbjct: 24500612 taaatatactttaaaaaatttaatggttatataaaagatatattaattattttataacataa
24500553

Query: 5222 ttgatgtattagttcagttgggttagag 5248
 ||||| |||||||||| |||||||||
Sbjct: 24500552 ttgatctattagttcaattgggttagag 24500526

Score = 93.7 bits (47), Expect = 5e-16
Identities = 107/127 (84%)
Strand = Plus / Minus

Query: 5121 ttaattggttacaaaatttattatctaaatttgcacataaataacattagaaaatt
5180
 |||||||||||||| ||||||| ||||||| |||| || ||||||| |||||||||
Sbjct: 29182096 ttaattggttacaaaacttattatttaaatttacatgtgcattaaatataaattagaaaatt
29182037

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221

Sbjct: 6884969 taaatatacattagaaaatttttagtggttatataataaagacattaattatttttaaaaataa
6885028

Query: 5222 ttgatgtatttagttcagttgggttagagcattatggttaataatgtgaaagtcaaaagtt
5279

Sbjct: 6885029 ttggtttatttagctcaattgattagagtgtcgtgctaataatgtgaaagtcacaagtt
6885086

Score = 91.7 bits (46), Expect = 2e-15
Identities = 265/336 (78%), Gaps = 4/336 (1%)
Strand = Plus / Plus

Query: 6682 gacacatggaacatcattttgggtttacctgattccttgatatccattttgggtgtgtatac
6741

Sbjct: 8492894 gacacacggaacatcgctttgggttgacctagttccttgataatcatttcggtgtggatac
8492953

Query: 6742 gagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattccttg
6801

Sbjct: 8492954 gagaaaagataggacaacccttagaattt-ttttcatgtcagggctgaggcagattatta
8493012

Query: 6802 gcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtaca
6861

Sbjct: 8493013 gcttgtgacatggtggcaaataatgcttcattgtgtaattctgcaagcaattctctataca
8493072

Query: 6862 tgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatggtgag
6921

Sbjct: 8493073 tgttggagacactttccaacatatgcacaggacatatgtagttcctggacccatggcgag
8493132

Query: 6922 catgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcac
6978

Sbjct: 8493133 tatgcttacaagtagcaacaacatgagaacaaggcatgtgtaatttctggaatttggcac
8493192

Query: 6979 agtcacactacctttcatctagcttgaccatgaaat 7014
||| |||| ||| ||||| | | |||||
Sbjct: 8493193 agttacaccaccattcatccaacctgaccatgaaat 8493228

Score = 91.7 bits (46), Expect = 2e-15
Identities = 100/118 (84%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175
||||||| | | ||||| ||||| ||| ||| |||||
Sbjct: 25579499 aaaaattaattatcataaaaatttattatgtaaatttatatgtacattaaatatacattag
25579558

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattag
5233
| ||||| | | ||| ||||| ||||| | |||||
Sbjct: 25579559 tatatttagtggttatataacaacgacattacttatattttataacataattgggtctattag
25579616

Score = 91.7 bits (46), Expect = 2e-15
Identities = 67/74 (90%)
Strand = Plus / Plus

Query: 5117 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||||| ||||| ||||| ||||| ||| ||| |||||
Sbjct: 43675127 aaaaattaattgtcacaaaatttattatttaatttacatgcgcattaaatatgcattaga
43675186

Query: 5177 aatttttagtggttat 5190
||||||| |||
Sbjct: 43675187 aatttttagtattat 43675200

Score = 89.7 bits (45), Expect = 8e-15
Identities = 135/165 (81%)
Strand = Plus / Plus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
7101
||||||| | ||||| | | ||||| || ||| ||||| |||

Sbjct: 3917551 atagttgacctttctttgtgtgtctttcatagcattgtttagtatttttgtacaaacttg
 3917610

```

Query:  7162      accaaatgtaatcactcttgcgacttctctccccctttggttgaa 7206
          ||||| ||||| | ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3917611    gtcaaatctaatactattgtttgacttctctccctctttgattgaa 3917655

```

Score = 89.7 bits (45), Expect = 8e-15
Identities = 150/185 (81%)
Strand = Plus / Minus

```
Query: 5131      caaaatttattatctaaatttgcatacacaataaatatacattagaaaatttttagtggtat
5190            ||||||||||| ||| | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 6936907  caaaatttattatgtaaatttacatctgtattaaatatacattagatatattttaatatattat
6936848
```

```
Query: 5191      atttagtgaaattaattatttttataacataattgatgtatttagttcagttggttagagca
5250           || ||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6936847  atatagcgacattaattaattttataacataattggttttattatctcagttcattagagtg
6936788
```

```
Query: 5251      ttatgtttaataatgtgaaagtcaaaagtccaattccttactttgggatcatthaatttttaaatt
5310            |||||          ||||||| | ||   |||||||          |||||||          |||
Sbjct: 6936787  ttgtgctaataacacgaaagtcacatatatttgattccttgattggaccattaatttttaaatt
6936728
```

```
Query: 5311      aattt 5315
        |||||
Sbjct: 6936727 aattt 6936723
```

Score = 89.7 bits (45), Expect = 8e-15
Identities = 81/93 (87%)
Strand = Plus / Plus

Query: 6581 aaatatttaaatttgaaataataacaacaaaaatttttaaatacaaacaaatattggcataaa
 6640
 |||||
 Sbjct: 8492771 aaatatttaaatttgaaacaataacaacaaaaatttttaaatacaaacagaatataacataaa
 8492830

Query: 6641 attaatgttggttgacctgagcctacacaatggg 6673
 |||||
 Sbjct: 8492831 ttcaacgttggttgacctgagtttacacagtggg 8492863

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 93/109 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 24500687 aaaattaattatcacaaaatttattatataaatctacattacattaaatataatataaa
 24500746

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||||
 Sbjct: 24500747 aaatttagtggttatataacgatattaattattttataacataattga 24500795

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 86/100 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 337448 aaaattaattgtcataaaaatttattttctaaatttacatacatattaaatatacattata
 337507

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataa 5216
 |||||
 Sbjct: 337508 aattttaattattatataataatattaattattttataa 337547

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 126/152 (82%), Gaps = 1/152 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcatacacaataaaatatacattaga
5176
|||||

Score = 83.8 bits (42), Expect = 5e-13

Identities = 91/107 (85%), Gaps = 4/107 (3%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||| ||||||||||| ||||||| | || ||||||||||||||| |
Sbjct: 919418 aaaattaattggtataaaaatttattatataaaatttgta----cattaaatatacattaaa
919363

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 || |||| | ||||| | || | ||||||||||||||| |||||
Sbjct: 919362 aactttaatattatatataatgacattaattattttataatataatt 919316

Score = 83.8 bits (42), Expect = 5e-13
Identities = 114/138 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||| ||||||||||||||||||| |||| | || | |||||||||||||||
Sbjct: 24588348 aaaattaaatggtacaaaatttattatgtaaacttatatgtgtattaaatatacattaga
24588289

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||||| || | ||||||||||| | | |||||| | ||||| |
Sbjct: 24588288 aatttttagtggttatacagagtaatatattaattattttttatataattgggtttattagctt
24588229

Query: 5237 agttggtagagcattat 5254
 |||| | |||| | ||||
Sbjct: 24588228 agttgactagagtattat 24588211

Score = 83.8 bits (42), Expect = 5e-13
Identities = 51/54 (94%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaa 5348
 ||||||||||||||||||| |||| ||||||||||||||||||| ||||
Sbjct: 42185089 tcattaatttttaaattaatttgaaaaacatatatttttgaaaaaaaaattataaaa
42185036

```
Query: 7162      accaaatgtaatcactcttgcgacttctctcccccttgggtgaa 7206
               ||| || ||||| | ||| ||||| ||||| ||||| |||||
Sbjct: 17159880 gccagatctaatactttttgcaacttctctccctcttgggtgaa 17159924
```

Score = 81.8 bits (41), Expect = 2e-12
Identities = 92/108 (85%), Gaps = 2/108 (1%)
Strand = Plus / Minus

Query: 6561 aaattacaaacaatagaacaaaata--tttaaatttgaaataataacaacaaaaattttaa
6618
||||| ||||||| ||||| | ||||||| ||||||| || ||
Sbjct: 17477408 aaattaccaacaatagaacaaaataaatataaatttgaattaataacaacaaaatttcaca
17477349

Query: 6619 aatacaaaacaatatggcataaaattaatggttggtggcctgagcctaca 6666
||||| ||||| |||| | | ||||||| |||| ||||
Sbjct: 17477348 aatacaaaataatatgcatacattcaatggttggtggcctgagtcctaca 17477301

Score = 81.8 bits (41), Expect = 2e-12
Identities = 71/81 (87%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221
||||| ||||||| ||||||| || || | ||||||| ||||||| |||||||
Sbjct: 21781954 taaatatacattaaaaattttaatggttatataaacaataattaattattttataacataa
21781895

Query: 5222 ttgatgtattagttcagttgg 5242
|| | ||||||| |||||
Sbjct: 21781894 ttaacatattagttcagttgg 21781874

Score = 81.8 bits (41), Expect = 2e-12
Identities = 65/73 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||| ||||||| ||||||| ||||| ||| || ||||||| |||||||
Sbjct: 29184294 aaaattaattgtcacaaaatttattattcaaatttatatgtgcattaaatatacattaga
29184235

Query: 5177 aatttttagtggtta 5189
||||| |||||
Sbjct: 29184234 aatttttagtggtta 29184222

Score = 81.8 bits (41), Expect = 2e-12
Identities = 98/116 (84%), Gaps = 2/116 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 ||||||| ||||||| ||||||| ||| || ||||||| |||||
Sbjct: 33078527 aaaattaattgttacaa--tttattatgttaaatttatatgtgcattaaatatacattaaa
33078470

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
 ||||||| | ||||||| || || ||||||| ||||||| ||||||| || |||||
Sbjct: 33078469 aatttttaattattatatataacgacattaattatttttaaataattaatatatta
33078414

Score = 81.8 bits (41), Expect = 2e-12
Identities = 56/61 (91%)
Strand = Plus / Plus

Query: 5289 cttggatcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaa
5348
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
Sbjct: 39379589 cttggaccattaatttttaaattaattcgtaaaacatatatttttgaaagaaaaattaaaaa
39379648

Query: 5349 a 5349
 |
Sbjct: 39379649 a 39379649

Score = 79.8 bits (40), Expect = 7e-12
Identities = 143/176 (81%), Gaps = 1/176 (0%)
Strand = Plus / Minus

Query: 7046 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
7105
 ||||| ||| ||||||| || ||||||| || ||||||| ||||||| |||||
Sbjct: 17476896 attgcctcctagactaagaatcatgtgtcgtgttgatcgaactcaagaacattgtgagtg
17476837

Query: 7106 ttgaccttttctgtatgtctttcatagccttggttaatacttttgataaaacttcacca
7165
 ||||||| | || ||||||| || ||||||| ||||| ||||||| |||
Sbjct: 17476836 ttgacctttctaagtc-gtcttgatggccttggttagtacttcctataaaacttggtta
17476778

Query: 7166 aatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacct 7221
 ||| || || | |||| ||||||||| ||| ||||||||||||||||
 Sbjct: 17476777 gatgcaagcattggtgcggcttctctccctctttggttgaacaatgcattacacct
 17476722

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 109/131 (83%), Gaps = 2/131 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||| ||| ||||||||||||| |||| | ||| | |||||||||||||
 Sbjct: 33377925 aaaattaattattataaaaatttattatataaaactt--atgtgtattaaatatacattaaa
 33377868

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||| ||||| ||||| || || ||||||||| ||||| ||||| || |||||||||
 Sbjct: 33377867 aattctagtgatatataacgatattaattatattataatataattaatttattagttc
 33377808

Query: 5237 agttgggttaga 5247
 ||||| |||||
 Sbjct: 33377807 agttgattaga 33377797

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 91/108 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||||| |||||||||||||||| ||||||| ||| | ||||||||| |||||
 Sbjct: 38218834 aaaattaattgtcacaaaatttattatgttaaatttatatgttaaattaaatataatataaa
 38218893

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224
 || |||| | ||||| || | | ||||||||||||||||| |||||||
 Sbjct: 38218894 aaatttaattattatatataataatattaattattttataatataattg 38218941

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 67/76 (88%)

Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 38797455 aaaattaattgtcacaaaatttattatttaaatttccatgcgtattaaatatacattaaa
38797514

Query: 5177 aatttttagtggttatat 5192
 || ||||
Sbjct: 38797515 aagtttactggttatat 38797530

Score = 77.8 bits (39), Expect = 3e-11
Identities = 99/119 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 337248 aaaattaattattataaaaatttattctctaaatttacacgtgcattaaatataatattaaa
337189

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 || |||||
Sbjct: 337188 aaatttagtggttagatataacaatattaattattatataacataattgagttattagtt
337130

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 856291 aaaattaattgtcacaaaatttattatttaaatttaaatgtgaattaaatatacattaaa
856232

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 |||||
Sbjct: 856231 aatttttagtggttatgtataacaatattattttattttataacgtaatt 856185

Score = 77.8 bits (39), Expect = 3e-11
Identities = 57/63 (90%)
Strand = Plus / Plus

Query: 5130 acaaaatattattatctaaatttgcacatgcacaataaatatacattagaaatatttagtggtta
5189
 |||||||||||||| |||||| ||| || |||||||| |||||||||| ||||||
Sbjct: 4324949 acaaaatattattatgtaaatttgcacatgcacaataaatatacattagaaatatttagtggtta
4325008

Query: 5190 tat 5192
 |||
Sbjct: 4325009 tat 4325011

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatattattatctaaatttgcacatgcacaataaatatacattaga
5176
 |||||||||| |||||||||||||| |||| | ||| | |||||| |||| |
Sbjct: 28291004 aaaattaattggttacaaaatattattatataaatctatatgtgtattaaatatatattaaa
28290945

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 |||||| |||||| || || |||||||||| ||||||
Sbjct: 28290944 aatttttagtattatataaaagatattaattattttataacataatt 28290898

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatattattatctaaatttgcacatgcacaataaatatacattaga
5176
 |||||||||| |||||||||| |||||| |||| || |||||||||| |||
Sbjct: 29725899 aaaattaattggtcacaaaatattacataaatttgcacattaaatatatacattaaa
29725958

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 || |||| |||||| || | |||||||||| ||||||
Sbjct: 29725959 aaatttagaattatataacaacattaattatttgataacataatt 29726005

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 33378027 aaaattaattgatataaaaatttattatgtgaacttatatatataaaaaatataatcaga
33378086

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 |||||
Sbjct: 33378087 aatttttagtggttatataatgattttaattattttataacataatt 33378133

Score = 77.8 bits (39), Expect = 3e-11
Identities = 51/55 (92%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattattttatgaataaataaaagggttttattcttaaatttg 5067
 |||||
Sbjct: 39812345 aataattttaataaattattttatgagtaaataaaaagttcgattcttaaatttg
39812291

Score = 77.8 bits (39), Expect = 3e-11
Identities = 57/63 (90%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtta
5189
 |||||
Sbjct: 43973296 acaaaatttattatgtaaatttacatgtacattaaatataaattagaaatttttagtatta
43973237

Query: 5190 tat 5192
 |||
Sbjct: 43973236 tat 43973234

Score = 75.8 bits (38), Expect = 1e-10
Identities = 75/86 (87%), Gaps = 1/86 (1%)
Strand = Plus / Minus

Query: 7417 acaaacacccagtgataacaacaatgaacaacacacatgacaactacaaatcattaaataa
7476

||||||| ||| |||||||||||||||||||| ||| ||| ||||||| |||||
Sbjct: 694614 acaaacacatagtaataacaacaatgaacaacacatatgaagactataaatcatgaaataa
694555

Query: 7477 taca-attacaatcaaataatttggg 7501
|| | || ||||||||||||||||
Sbjct: 694554 taaacataacaatcaaataatttggg 694529

Score = 75.8 bits (38), Expect = 1e-10
Identities = 158/198 (79%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176

|||||||||| |||||||||||| |||||||| || ||| ||||| ||| |
Sbjct: 4981096 aaaattaattgtcacaaaatttattatttaaatttacatatccatttaattcatcaaa
4981155

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| |||| | ||||| || | |||| |||||||||| |||||| | |||| |
Sbjct: 4981156 aaatttaattattatatataacaacattatttattttataatgtaattgactcattagctt
4981215

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

| |||||||||||| |||||| | |||| ||| || || | |||| |||||
Sbjct: 4981216 aattgggttagagcattgagtttaataacctgaaaatcacaaattttgagtcttgcttggatt
4981275

Query: 5297 attaatTTTTAAATTAATT 5314
|||||||||||||||
Sbjct: 4981276 attaatTTTTAAATTAATT 4981293

Score = 75.8 bits (38), Expect = 1e-10
Identities = 65/74 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176

|||||||||| |||||||||||| |||||| |||| | ||| |||||||||
Sbjct: 8231410 aaaattaattgtcacaaaatttattatttaaatttacatgcgcttcaaaaatacattaga
8231351

```
Query: 5131      caaaatttattatctaaatttgcattgcacaataaatatacattagaaatttttagtgttat
5190            ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 33335313 caaaatttattatttaaatttaccatttgcattaaatatacataaaaaaatttagtattat
33335372
```


||||| ||||||| ||||||| || || || ||||||| ||||||| ||
Sbjct: 22391720 ttgtaacaaaatttattatgtgaaatttatatacgcatataacattataaaattt--g
22391777

Query: 5185 tggttatatttagtgaaattaattattttataacataattg 5224
||||||| || || || ||||||| ||||||| |||||||
Sbjct: 22391778 tggttatatataataatattaattattttataaaataattg 22391817

Score = 73.8 bits (37), Expect = 5e-10
Identities = 92/109 (84%), Gaps = 1/109 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
||||||| || ||||||| ||||||| ||||| || ||||||| |||||||
Sbjct: 24500112 aaaattaattatcacaaaatttattatgtgaaatttacatgtgtattaaatataaattaga
24500053

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
||||||| ||||| ||| || ||||| || ||||||| |||||||
Sbjct: 24500052 aatttttagtattatacatagatatattaa-taattttataacataattga 24500005

Score = 73.8 bits (37), Expect = 5e-10
Identities = 120/147 (81%), Gaps = 8/147 (5%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaa--tttgcacatgcacaataaatatacatta
5174
||||||| ||||||| ||||||| ||||| ||||| || ||||||| |||||||
Sbjct: 25837214 aaaattaattggttataaaaatttattatataaaaaatttgtat-----taaatacatta
25837161

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
5234
||||||| ||||||| || || || ||||||| ||||||| || |||||
Sbjct: 25837160 aaaattttagtattatatataataacattaattattttttaacataattaacctattaac
25837101

Query: 5235 tcagttgggttagagcattatgttaata 5261
||| ||||||| || || |||||
Sbjct: 25837100 tcaattgggttagagtatcatattaata 25837074

Score = 73.8 bits (37), Expect = 5e-10
Identities = 91/108 (84%), Gaps = 2/108 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataa--atatacatta
5174
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29184365 aaaattaattatcacaaaatttattatttaaatttatatgtgcattaaatatatatatta
29184424

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataat 5222
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29184425 aaaattttagtggttatatatagtaacattatttattttataacgtaat 29184472

Score = 73.8 bits (37), Expect = 5e-10
Identities = 55/61 (90%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcatgcacaataaatatacattagaaattttagtggttata
5191
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43742474 aaaatttattatgtaaaatttacatgtacattaaatataaaattaaaaattttagtggttata
43742415

Query: 5192 t 5192
 |
Sbjct: 43742414 t 43742414

Score = 71.9 bits (36), Expect = 2e-09
Identities = 63/72 (87%)
Strand = Plus / Minus

Query: 6305 tttttttgttattaattgtctatatttgtgttctgtttaaattgaaaacaatattatttt
6364
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11476744 tttttatgttattaattgtctatattcatgttttgtttaaacggacaataatattatttt
11476685

Query: 6365 tcatatgttggt 6376
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11476684 gcatatgttggt 11476673

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 97/116 (83%), Gaps = 1/116 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 27656129 aaaattaattattacaaaatttattatgttaaacttatatgtatattaaatatacattaga
 27656070

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
 || ||||| ||||| || || ||||| ||||| ||||| || |||||
 Sbjct: 27656069 aa-ttttagtggtatatatatatcgatgctaattattttttaacataattaatttatta
 27656015

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 72/84 (85%)
 Strand = Plus / Plus

Query: 5165 atatacattagaaattttagtggttatatttagtgaaattaattattttataacataattg
 5224
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 35701677 atatacattaaaaaatttaattattatatataacgacattaattattttataacataattg
 35701736

Query: 5225 atgtattagttcagttggttagag 5248
 | ||||| ||||| ||||| |||||
 Sbjct: 35701737 acctattagttcaatttggttagag 35701760

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 88/104 (84%), Gaps = 1/104 (0%)
 Strand = Plus / Plus

Query: 5134 aattttattatctaaatttgcacatgcacaataaatatacattagaaattttagtggttatatt
 5193
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 43763576 aattttattatataaatttacatgcacgttaaatacattaaaaattttagt-atacata
 43763634

Query: 5194 tagtgaaattaattattttataacataaattgatgtattagttca 5237
 || | ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 43763635 taacaacattaattattttataacataaactgatctattaattca 43763678

Score = 69.9 bits (35), Expect = 7e-09
Identities = 68/79 (86%)
Strand = Plus / Minus

Query: 7080 aatcgaactcaagaacaatgtgagagtttgcccttttctgtatgtctttcatagccttgt
7139
|||||
Sbjct: 13169116 aatcgaactcaagaacatggtgagagttggccttttctgtacgtcttccatagctctgt
13169057

Query: 7140 ttaataacttttgtataaac 7158
|||
Sbjct: 13169056 ttagtatttttgtataaac 13169038

Score = 69.9 bits (35), Expect = 7e-09
Identities = 188/239 (78%)
Strand = Plus / Minus

Query: 6691 aacatcattttggtttacctgattcttgatataccattttggtgtgtatacgagaggaga
6750
|||||
Sbjct: 17477254 aacatcactttggttgaccggttctcggatataccatttcggtgtggatatgagtgaaga
17477195

Query: 6751 catgacaacctttagaatttcttttcatttttgggttggggcaaattcttggcttgtgac
6810
|||
Sbjct: 17477194 caagatgacccttagtacttggtttcttttctagatcgagggagatcattggcttgtgac
17477135

Query: 6811 atggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgtacatgttataga
6870
|
Sbjct: 17477134 acggtgaccaataggcttcggttgcaattctccaaacaatcatctgtatatgttggaga
17477075

Query: 6871 tacttttcagcgtatacacaagatgtatgtagttcctatactcatggtgagcatgctta
6929
|||||
Sbjct: 17477074 cactttctaacgtatacacaagacgtatgtagtttttgtaatcatgatgagcatgctta
17477016

Score = 69.9 bits (35), Expect = 7e-09
Identities = 41/43 (95%)

Strand = Plus / Plus

Query: 7179 ttgcgacttctctccccctttggttgaacaatgcattacacct 7221
 |||||
Sbjct: 18092209 ttgcgacttctctccctcttttgttgaacaatgcattacacct 18092251

Score = 69.9 bits (35), Expect = 7e-09
Identities = 89/107 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
 |||||
Sbjct: 22391478 aaaattaattatcaaaaaatttattatgtaagtttacatgtgcattaaatatatattaaa
22391419

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataatt 5223
 | |||||
Sbjct: 22391418 aattttagtattatatataacaacattaattattttataacataatt 22391372

Score = 69.9 bits (35), Expect = 7e-09
Identities = 38/39 (97%)
Strand = Plus / Minus

Query: 5291 tggatcattaattttaaatattgtgaaaatatatttt 5329
 |||||
Sbjct: 24499975 tggatcattaattttaaatattgtgaaaatatattttt 24499937

Score = 69.9 bits (35), Expect = 7e-09
Identities = 119/147 (80%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
 |||||
Sbjct: 33078722 aaaattaattatcacaaaatttattatgtaaatattatgtgaattaaatttacattaga
33078781

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||

Sbjct: 33078782 aatTTTactattatatataacaacattaattatTTTacaatacaattaacttatttagctc
33078841

Query: 5237 agttggtagagcattatgttaataat 5263
| ||| |||| |||||||||
Sbjct: 33078842 atttgaatagagaattatgttaataat 33078868

Score = 69.9 bits (35), Expect = 7e-09
Identities = 113/139 (81%), Gaps = 10/139 (7%)
Strand = Plus / Plus

Query: 5203 taattatTTTataacataattgatgtatttagttcagttggtagagcattatgttaataa
5262
||||||| ||||| || ||| ||||||||| ||||| | || |||||||
Sbjct: 33781631 taattatTTTataataataatttat-agttcagttgcttagaacgttgtgttaataa
33781689

Query: 5263 tgtgaaagtcaaaagttcaattcttacttggatcattaatTTTaaattaatttgtaaaat
5322
|| |||| || |||||| ||||||||| ||||||||| |||||
Sbjct: 33781690 tgcgaaaatca-----ttcttatttggatcattcctTTTaaattaattcctaaaac
33781740

Query: 5323 atatTTTtgaaaaaaaaaat 5341
||||||| |||||||||
Sbjct: 33781741 atatTTTtgaaaaaaaaaat 33781759

Score = 69.9 bits (35), Expect = 7e-09
Identities = 65/75 (86%)
Strand = Plus / Plus

Query: 7046 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
7105
||||||| | || |||||| ||| ||| ||||||||| ||||||||| |||||
Sbjct: 35043570 attgtctcttgattaagaagtgtgtgttgcatatcaaaactcaagaacagtgtgagca
35043629

Query: 7106 tttgcctTTTTtctgt 7120
||||||| |||||
Sbjct: 35043630 tttgcctTTTTtctgt 35043644

Score = 69.9 bits (35), Expect = 7e-09

Identities = 66/75 (88%), Gaps = 1/75 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattag-
5175
 ||||||||||||| ||||||||||||||| ||||||| ||||| ||||||| |||||||
Sbjct: 35551653 aaaattaattggtcacaaaatttattatttaaatttacatgcgtgttaaataatgcattaga
35551712

Query: 5176 aaatttttagtggttat 5190
 |||||||||||||||||
Sbjct: 35551713 aaatttttagtggttat 35551727

Score = 69.9 bits (35), Expect = 7e-09
Identities = 78/91 (85%), Gaps = 1/91 (1%)
Strand = Plus / Plus

Query: 5130 acaaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtta
5189
 ||||||||||||||| | |||||| ||| ||| ||||||||| ||||||||||||||| |||
Sbjct: 37979215 acaaaaatttattatgtcaatttacatatacattaaatataaaattagaaatttttagtatta
37979274

Query: 5190 tatttagtgaaattaattattttataacata 5220
 ||| |||||| | || ||| |||||||||
Sbjct: 37979275 tatatagtgaactattta-tttataacata 37979304

Score = 69.9 bits (35), Expect = 7e-09
Identities = 89/107 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| | | ||||||||||||| ||||||| | | | ||||||||||||| |
Sbjct: 39472359 aaaattaattatcataaaatttattatgtaaatttacttatgtattaaatatacattaaa
39472300

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataaatt 5223
 || |||||| |||||| || || |||||||||||||||||||||
Sbjct: 39472299 aaatttagtattatatataacgatattaattattttataacataaatt 39472253

Score = 69.9 bits (35), Expect = 7e-09

Identities = 121/147 (82%), Gaps = 2/147 (1%)
Strand = Plus / Plus

Query: 5194 tagtgaaattaattatTTTTataacataattgatgtattagttcagttggtttagagcatta
5253
||||| |||| | ||||| ||||| || || ||||| ||||| ||||| ||
Sbjct: 42947567 tagtgatattatTTTatTTTataaccataat-gacctattagttcagttagtttagagtgttg
42947625

Query: 5254 tgttaataatgtgaaagtcAAAagttcaattcttacttggatcattaatTTTaaattaat
5313
|| ||||| | ||||| | || ||||| ||||| ||||| ||||| |||||
Sbjct: 42947626 tgctaataacctaaaagtcacatatttgattcttacttgg-tcattatTTTaaattaat
42947684

Query: 5314 ttgtAAAatatatTTTTgAAAAAAAA 5340
| ||| | ||||| |||||
Sbjct: 42947685 tcctaatacatatTTTTgagAAAAAAAA 42947711

Score = 67.9 bits (34), Expect = 3e-08
Identities = 122/150 (81%), Gaps = 1/150 (0%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
||||| |||| | ||||| ||||| ||||| ||| ||| ||||| |||||
Sbjct: 5124719 aaaaaataatcgtcacaaaattattatataaaatttccatatacattaaatataaattag
5124778

Query: 5176 aaatTTtagtgttatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235
||||| | ||||| ||| | | ||| ||||| ||||| | ||||| |
Sbjct: 5124779 aaatTTcattgttatatatagcaacactattta-tttataacataatgtggtttattagct
5124837

Query: 5236 cagttggtttagagcattatgTTaataatgt 5265
||||||| |||| || | ||||| |||||
Sbjct: 5124838 cagttggtttgagcgttctattaataatgt 5124867

Score = 67.9 bits (34), Expect = 3e-08
Identities = 67/78 (85%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttatgaataaataaaaagggttttattcttaaatttgcttgag
5073

||||||| ||| ||||||||| ||||||||| | ||| ||||||| |||
Sbjct: 6235015 ataattttattaaactatatttatgagtaaataaaaaggcctcatttttaaatttatatttag
6235074

Query: 5074 ccctctcaagtccttgag 5091

|||||||
Sbjct: 6235075 gcctctcaagtccttgag 6235092

Score = 67.9 bits (34), Expect = 3e-08
Identities = 55/62 (88%)
Strand = Plus / Plus

Query: 6936 acaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttca
6995

||||||| ||||||| ||||| ||||| ||||||| |||||||
Sbjct: 18091965 acaacatgagaacaagacatgtgcaattttttgaatttgaacagtcacaccacctttca
18092024

Query: 6996 tc 6997

||
Sbjct: 18092025 tc 18092026

Score = 67.9 bits (34), Expect = 3e-08
Identities = 58/66 (87%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacacataaatatacattagaa
5177

||||||| | | ||||||||| ||||||| ||||||| ||||||| |||
Sbjct: 38797327 aaattaattatcataaaatttattatttaaatttacatgcacattaaatatacattaaaa
38797268

Query: 5178 atttta 5183

|||||
Sbjct: 38797267 ttttta 38797262

Score = 67.9 bits (34), Expect = 3e-08
Identities = 55/62 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacataa
5221
|||||
Sbjct: 40187790 taaatatacattaaaaaTTtagtgTTtatatagcgacattaattTTTTataatataa
40187731

Query: 5222 tt 5223
||
Sbjct: 40187730 tt 40187729

Score = 67.9 bits (34), Expect = 3e-08
Identities = 65/74 (87%), Gaps = 1/74 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaTTTattatctaaTTTgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 43674989 aaaattaattgtcataaaaTTTgttatttaaTTTcatgtacattaaatatattaga
43674930

Query: 5177 aTTTTtagtgTTat 5190
|| |||||
Sbjct: 43674929 aa-tTTtagtgTTat 43674917

Score = 65.9 bits (33), Expect = 1e-07
Identities = 79/93 (84%), Gaps = 1/93 (1%)
Strand = Plus / Plus

Query: 5130 acaaaTTTattatctaaTTTgcatgcacaataaatatacattagaaTTTTtagtgTTa
5189
|||||
Sbjct: 3250879 acaaaTTTaatatgtaaaTTtagatgtacattaaatataaattacaaTTTTtagtgTTa
3250938

Query: 5190 tTTTTtagtgaaattaattTTTTataacataat 5222
||| || ||| | || ||| |||||
Sbjct: 3250939 tatataatgacactatttta-tTTataacataat 3250970

Score = 65.9 bits (33), Expect = 1e-07
Identities = 102/123 (82%), Gaps = 4/123 (3%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 5014520 aaaattaattgt--cataatttattatttaaatttatatgcgcattaaatatacattaaa
5014463

Query: 5177 aatttttagtggtta--tatttagtgaaattaattattttataacataattgatgtattagt
5234

||
Sbjct: 5014462 aagtttagtattatgtatataataatattattttattttataacataattaacttattagt
5014403

Query: 5235 tca 5237
|||
Sbjct: 5014402 tca 5014400

Score = 65.9 bits (33), Expect = 1e-07
Identities = 45/49 (91%)
Strand = Plus / Plus

Query: 5018 ttttaataaattattttatgaataaataaaaagggttttattcttaaattt 5066
|||||
Sbjct: 35890756 ttttaataaactattttatgagtaaataaaaagatttcattcttaaattt 35890804

Score = 65.9 bits (33), Expect = 1e-07
Identities = 45/49 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaaa 5165
|||||
Sbjct: 40323834 aaaattaattgttacaaaatttattatgtaaatttacatgtacattaaa 40323786

Score = 63.9 bits (32), Expect = 4e-07
Identities = 80/96 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 6884805 aaaattaattgttacaaaatttattatgtaaacttatatgtatatttatatacactaga
6884746

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTT 5212
 ||||| ||||| || || ||||| |||||
 Sbjct: 6884745 aatTTtagtgTtatatatattggtgttaattatTTT 6884710

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 44/48 (91%)
 Strand = Plus / Minus

Query: 5289 cttggatcattaatTTTaaattaatttgtaaaatatatTTTtgaaaaa 5336
 |||| | ||||| ||||| ||||| | |||| | ||||| ||||| |||||
 Sbjct: 11551713 cttgtatcattaatTTTaaattaatcgtaaaatatatTTTtgaaaaa 11551666

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 56/64 (87%)
 Strand = Plus / Minus

Query: 6713 ttcttggaTatccatTTTggtgtgtatacgagaggagacatgacaacCTTtagaattTct 6772
 |||| | ||||| ||||| || || ||||| ||||| || || || || |||||
 Sbjct: 12543493 ttcttagaTatccatTTTggtatggatacgagaggagacaagatgaccCTTataattTct 12543434

Query: 6773 tttc 6776
 ||||
 Sbjct: 12543433 tttc 12543430

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 38/40 (95%)
 Strand = Plus / Minus

Query: 6431 tcctTtgTatTTTtattTtatttgattattataataacata 6470
 |||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 12543755 tccttcgTatTTTtattTtatttgattattaaaataacata 12543716

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 83/100 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga 5176

|||||
Sbjct: 20618160 aaaattaattgctataaaaatttattatctaaatttatatgtgtattaaatatattata
20618101

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataa 5216
|||||
Sbjct: 20618100 aatttcaatgttacatataataatattaattattttataa 20618061

Score = 63.9 bits (32), Expect = 4e-07
Identities = 44/48 (91%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattagttcagttggtagag 5248
|||||
Sbjct: 20883165 attaattattttataacataattgacctattaattcatttggttagag 20883118

Score = 63.9 bits (32), Expect = 4e-07
Identities = 83/100 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 27739256 aaaattaattatcataaaaatttattatttaaatttatgtacgcattaaatatacattata
27739315

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataa 5216
|||||
Sbjct: 27739316 aattttaatgttatgtatagtaacattatttattttataa 27739355

Score = 63.9 bits (32), Expect = 4e-07
Identities = 47/52 (90%)
Strand = Plus / Plus

Query: 5289 cttggatcatthaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
|||||
Sbjct: 28680299 cttggaccatthaatttttaaattaatttgtcacaaatatatttttcaaaaaaaaaa 28680350

Score = 63.9 bits (32), Expect = 4e-07
Identities = 47/52 (90%)

Strand = Plus / Plus

Query: 5290 ttggatcattaatttttaaatatttgtaaaatatatttttgaaaaaaaaat 5341
 ||||| ||||||||||||||||| | |||| |||||||||||||||||||
Sbjct: 37979373 ttggaccattaatttttaaatcataaattatatatttttgaaaaaaaaat 37979424

Score = 63.9 bits (32), Expect = 4e-07
Identities = 35/36 (97%)
Strand = Plus / Plus

Query: 5013 aataattttaataaattattttatgaataaataaaa 5048
 ||||||||||||||||||| |||||||||
Sbjct: 38332682 aataattttaataaattattttataaataaataaaa 38332717

Score = 63.9 bits (32), Expect = 4e-07
Identities = 41/44 (93%)
Strand = Plus / Plus

Query: 5297 attaattttaaatatttgtaaaatatatttttgaaaaaaaaa 5340
 ||||||| ||||||||| ||||||| |||||||||||||||||
Sbjct: 41826995 attaatcttaaatatttgtaaaatatatttttgaaaaaaaaa 41827038

Score = 62.0 bits (31), Expect = 2e-06
Identities = 64/74 (86%), Gaps = 2/74 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||||| | ||||||||||| ||||||| ||| | ||||||| |||||
Sbjct: 148055 aaaattaattgt--cataatttattatttaaatttacatgtgcattaaatatatattaga
147998

Query: 5177 aatttttagtgttat 5190
 ||||||||| |||||
Sbjct: 147997 aatttttagtattat 147984

Score = 62.0 bits (31), Expect = 2e-06
Identities = 34/35 (97%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaattt 5151
 |||||||||||||||||||||||||||||
Sbjct: 6021830 aaaattaattggttacaaaatttattatgtaaattt 6021864

Score = 62.0 bits (31), Expect = 2e-06
Identities = 64/74 (86%), Gaps = 2/74 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||||||||| ||| ||||||||| ||||||| || ||| | ||||||||||||| |
Sbjct: 19023197 aaaattaattgtcacaa--tttattatttaaatttacacgcataataatatacattaa
19023254

Query: 5177 aatttttagtggttat 5190
 | |||||||||||
Sbjct: 19023255 aatttttagtggttat 19023268

Score = 62.0 bits (31), Expect = 2e-06
Identities = 88/107 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||||||||| | ||||||||||||| ||||||| || | | ||||||||||||| |
Sbjct: 28011761 aaaattaattgtcataaaaatttattatttaaatttatatacgtattaaatatacattata
28011820

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 ||||||||| |||| | || | |||| | ||||||| |||||||||
Sbjct: 28011821 aatttttagtattatgtataacaatattatttatttttaaataacataatt 28011867

Score = 62.0 bits (31), Expect = 2e-06
Identities = 97/118 (82%), Gaps = 2/118 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataa--atatacatta
5174
 ||||||||||||| | ||||||||||||||||||||| || ||| ||| ||||| |||||
Sbjct: 28199378 aaaattaattgtcataaaaatttattatctaaatttatatacattaaatatatatatta
28199437

Query: 5175 gaaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtatta
5232
 ||||| | ||||| || | ||||| ||||| ||||| || |||||
Sbjct: 28199438 agaatTTtattattatatataacaatattaattatTTTataacataatttatttatta
28199495

Score = 62.0 bits (31), Expect = 2e-06
Identities = 34/35 (97%)
Strand = Plus / Plus

Query: 5201 attaattatTTTataacataattgatgtattagtt 5235
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 32470900 attaattatTTTataacataattgatttattagtt 32470934

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 1640 acaaagccttatccactaggtggggtcggctacatggatc 1681
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 5431128 acaaagccttatccactaggtgaggttggtacatggatc 5431169

Score = 60.0 bits (30), Expect = 7e-06
Identities = 51/58 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacat
5174
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 5705964 aaaattaattatcacaaaatttattatttaaatttacatgcgcattaaatatatta
5705907

Score = 60.0 bits (30), Expect = 7e-06
Identities = 48/54 (88%)
Strand = Plus / Plus

Query: 5013 aataatTTtaataaattatTTtatgaataaataaaaggTTttattcttaaattt 5066
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6982059 aataatTTtaataaactatTTTataaataaataaaatatatcattcttaaattt 6982112

Score = 60.0 bits (30), Expect = 7e-06
Identities = 96/118 (81%)
Strand = Plus / Plus

Query: 5145 taaatttgcacataataatatacattagaaatatttagtggttatatttagtgaaatta
5204
 ||||| | ||||| ||||| ||||| || ||||| ||||| | || | |||||
Sbjct: 20688592 taaatttacgtgcacattaaatataaaattaaaatttttattgttacacataataatatta
20688651

Query: 5205 attattttataacataattgatgtatttagttcagttggtagagcattatgttaataa
5262
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 20688652 tttattttataacataattgatctattaactcaattgattagaacattacgctaataa
20688709

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Plus

Query: 5297 attaatTTTaaattaatttgTaaaatatattttt 5330
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 20688744 attaatTTTaaattaatttcgTaaaatatattttt 20688777

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Plus

Query: 5297 attaatTTTaaattaatttgTaaaatatattttt 5330
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 24500867 attaatTTTaaattaatttagTaaaatatattttt 24500900

Score = 60.0 bits (30), Expect = 7e-06
Identities = 45/50 (90%)
Strand = Plus / Minus

Query: 5290 ttggatcattaatttttaaattaatttgTaaaatatatttttgaaaaaaaa 5339
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25835850 ttggaccattaatttttaaattaaccgTaaattatatatttttgaaaaaaaa 25835801

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatgga 1679
|||||
Sbjct: 25997034 gccttatcccactaggtgaggtcggctacatgga 25997067

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatTTTTGAAAAAAAAATTATAAAAA 5349
|||||
Sbjct: 28011050 attaatttgtaaacacatatTTTTGAAAAAAAAATTAAAAAA 28011009

Score = 60.0 bits (30), Expect = 7e-06
Identities = 57/66 (86%)
Strand = Plus / Minus

Query: 5275 aagttcaattccttacttggatcattaatttttaaattaatttgtaaaatatatTTTTGAAA
5334
|||||
Sbjct: 33453578 aagttcaattcctTTTTGGGACACTAATTTTAAATTAATCGTAAATTATATTTTTGAAA
33453519

Query: 5335 aaaaaa 5340
|||||
Sbjct: 33453518 aaaaaa 33453513

Score = 60.0 bits (30), Expect = 7e-06
Identities = 73/86 (84%), Gaps = 1/86 (1%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtggttatatTTTAGTGAAATTAATTATTTTATAACATAA
5221
|||||
Sbjct: 39379926 taaatatacattacaaattttattggttatatataacgacatt-ATTTTTTTTAAACATAA
39379984


```
Query: 6780      tttgggttggggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcacaat
6839           |||||
Sbjct: 697307   ttttgggtcaggccatattgggtggtttatgacactgtggccaatacgccttcattgcacaat
697248
```

Query: 6840 t 6840
 |
 Sbjct: 697247 t 697247

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 101/123 (82%), Gaps = 4/123 (3%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||| ||||| ||||| ||| ||| | ||||| ||||| |||||
 Sbjct: 1248844 aaaattaattattataaaaatttattatataaaactt--atgtgtattaaatatacattaga
 1248901

Query: 5177 aatttttagtggttatatttagtgaaa--ttaattattttataacataattgatgtattagt
 5234
 ||||| ||| ||||| || || ||||| ||||| ||||| ||||| |||||
 Sbjct: 1248902 aatttcagtcatatatatatattaacgttaattattttttaacataattgatctattagt
 1248961

Query: 5235 tca 5237
 |||
 Sbjct: 1248962 tca 1248964

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 50/57 (87%)
 Strand = Plus / Plus

Query: 5123 aattgttacaaaatttattatctaaatttgcacataaatatacattagaaat 5179
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 3643527 aattgtcacaaaatttattattcaaatttacatgcgcattaaatacacattagaaat
 3643583

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 44/49 (89%)
 Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcacataaatatacattagaaatt 5180
 ||||| ||||| ||||| || ||||| ||||| |||||
 Sbjct: 13707108 aaaatttattatttaaatttacatgcgcattaaatatgcattagaaatt 13707156

Score = 58.0 bits (29), Expect = 3e-05
Identities = 41/45 (91%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
 ||||| ||||||||||||||| ||||| ||||||||||| |||||
Sbjct: 20883746 cattagtttttaaattaattttataaaacatatatttttgaagaaaaaa 20883790

Score = 58.0 bits (29), Expect = 3e-05
Identities = 53/61 (86%)
Strand = Plus / Minus

Query: 5132 aaaattttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtata
5191
 ||||||||||||| | ||||| ||| ||| ||||||||| |||| | |||||||||||||||||
Sbjct: 28794344 aaaattttattatgttaattttatatgtacattaaatataaattaaaaatttttagtggtata
28794285

Query: 5192 t 5192
 |
Sbjct: 28794284 t 28794284

Score = 58.0 bits (29), Expect = 3e-05
Identities = 62/73 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||| ||||||||||||||| |||| | |||| | || ||||||||| |||| |
Sbjct: 29355378 aaaattaattgtaacaaaattttattatgtaaacttacatgtgcattaaatatatattaa
29355437

Query: 5177 aatttttagtggtta 5189
 |||||||||||||
Sbjct: 29355438 gtttttagtggtta 29355450

Score = 58.0 bits (29), Expect = 3e-05
Identities = 47/53 (88%)
Strand = Plus / Plus

Query: 5287 tacttggatcattaatttttaaatatttgtaaaatatatttttgaaaaaaaa 5339
 ||||| | |||||||||||||||| | ||| ||||||||||||||||
Sbjct: 33320271 tacttgaaccattaatttttaaatcataaattatatattttgaaaaaaaa
33320323

Score = 58.0 bits (29), Expect = 3e-05
Identities = 89/109 (81%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||||||||| | |||||||||||| ||||| || | |||||||||||| |
Sbjct: 4009641 aaaattaattgtcaccaaatttattatgtaaatttatatgtgtattaaatatacattaa
40096582

Query: 5177 aattttagtggttatattttagtgaaattaattattttataacataattga 5225
 |||| | ||| |||| | || |||||||||||||||| |||||||
Sbjct: 40096581 aattataatgtcatataaaacgatattaattattttataaagtaattga 40096533

Score = 56.0 bits (28), Expect = 1e-04
Identities = 88/107 (82%), Gaps = 2/107 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||||||||||| |||||||||||| |||| | || | |||||||| |||| |
Sbjct: 131284 aaaattaattgttataaaaatttattatataaaactt--atgtgtattaaatataatataaa
131341

Query: 5177 aattttagtggttatattttagtgaaattaattattttataacataatt 5223
 | |||| | |||||| || | |||||||||||||||| |||||||
Sbjct: 131342 atttttaattatataataataatattaattattttataatataatt 131388

Score = 56.0 bits (28), Expect = 1e-04
Identities = 46/52 (88%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattagttcagttgggttagagcatt 5252
 |||| |||||||||| |||||||| | |||||| |||||||| |||||||
Sbjct: 8344656 attatttattttataatataattgattcattagtttagttgggttaaagcatt 8344605

Score = 56.0 bits (28), Expect = 1e-04
Identities = 82/100 (82%)
Strand = Plus / Plus

Query: 6683 acacatggaacatcattttggtttacctgattccttgatatccattttggtgtgtatacg 6742
 ||||||||||||||| ||||||| | | | | | ||||||||||| ||||||||| |
Sbjct: 17159400 acacatggaacatctttttggttgacttggtgttctcatatccatttcagtgtgtatatg 17159459

Query: 6743 agaggagacatgacaacctttagaatttcttttcattttt 6782
 ||||| | | ||||||||||||||||||| |||||||
Sbjct: 17159460 agaggataactaaacaacctttagaatttcttaacattttt 17159499

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 6431 tcctttgtatttttattttatttgattattataatacata 6470
 |||||| | |||| | ||||||||||||||||||| |||||
Sbjct: 17477498 tcctttgcatttttcattttatttgattattataaaacata 17477459

Score = 56.0 bits (28), Expect = 1e-04
Identities = 31/32 (96%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaaa 5339
 ||||||||||||||| |||||||||||||||||||
Sbjct: 24021859 attaatttgtaaattatatatttttgaaaaaaaaa 24021828

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 6883 tatacacaagatgtatgtagttcctatactcatggt 6918
 ||||||||||||||| ||||||| | |||||||||
Sbjct: 35041345 tatacacaagatgtatgtagttcatgtactcatggt 35041380

Score = 56.0 bits (28), Expect = 1e-04

Identities = 64/76 (84%)
Strand = Plus / Minus

```
Query: 5162      taaatatacattagaaatTTtagtgTtatatTTtagtgaaattaattatTTtataacataa
5221            ||||| ||||| ||||| ||||| | | ||||| ||||| |||||
Sbjct: 36316383 taaatatacattaaaaaTTtagTTTTatatattacaatattaattatTTtataatataa
36316324
```

```
Query: 5222      ttgatgtattagttca 5237
                ||| ||||| |||||
Sbjct: 36316323 ttgacatattagttca 36316308
```

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Minus

```
Query: 1242      ttcttatcagttttaatatctgatatgtgggtcattg 1277
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40184162 ttcttattagttttaatatctgatatgtggatcattg 40184127
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

```
Query: 5117      aaaattaattgTtacaaaatttattatctaaattt 5151
                ||||| ||||| ||||| ||||| |||||
Sbjct: 2506875 aaaattaattgTtataaaatttattatataaaattt 2506909
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

```
Query: 5162      taaatatacattagaaatTTtagtgTtatat 5192
                ||||| ||||| ||||| ||||| |||||
Sbjct: 11551842 taaatataaattagaaatTTtagtgTtatat 11551812
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 54/63 (85%)
Strand = Plus / Minus

Query: 6720 atatccattttggtgtgtatatacgagaggagacatgacaacctttagaatttcttttcatt
6779

 ||||| |||| | ||| |||||||||||| || ||| |||||||||||||||| ||||
Sbjct: 13176826 atatctatttcgatgtatatacgagaggatactagacgacctttagaatttctttacatt
13176767

Query: 6780 ttt 6782

 |||
Sbjct: 13176766 ttt 13176764

Score = 54.0 bits (27), Expect = 4e-04
Identities = 39/43 (90%)
Strand = Plus / Minus

Query: 7459 ctacaaatcattaaataataacaattacaatcaaataatttggg 7501

 |||||||||||||||||| ||| |||||||||||| |||||
Sbjct: 17460469 ctacaaatcattaaataataaaaatagcaatcaaataaattggg 17460427

Score = 54.0 bits (27), Expect = 4e-04
Identities = 48/55 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaaatataca 5171

 |||||||||| ||| |||||||||||| |||||| |||| | |||||||||
Sbjct: 21413587 aaaattaattattataaaaatttattattttaaatttatatgcataattaaatataca
21413641

Score = 54.0 bits (27), Expect = 4e-04
Identities = 69/83 (83%)
Strand = Plus / Minus

Query: 6758 acctttagaatttcttttcatttttgggttggggcaaattcttggttgtgacatggtga
6817

 |||||||||||||||| |||||| ||||| |||||||| ||| | |||||| | |
Sbjct: 23309591 acctttagaatttcttaacatttttgggttgaggcaaattggtggttcgtgacacgataa
23309532

Query: 6818 ccaacatgcttcattgcacaatt 6840

 |||| | |||||||||||||
Sbjct: 23309531 ccaaaactcttcattgcacaatt 23309509

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatattttt 5330
 |||||||||||||||||| ||||| |||||||
Sbjct: 30429118 cattaatttttaaattaatttcgtaaaacatatattttt 30429084

Score = 54.0 bits (27), Expect = 4e-04
Identities = 66/79 (83%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 |||||||||||||| ||||||| | ||||| || | | |||||||||||||| |||
Sbjct: 37414226 taaatatacattaaaaattttattattatatataacaacactaattattttataatataa
37414285

Query: 5222 ttgatgtattagttcagtt 5240
 ||||| |||||| |||||
Sbjct: 37414286 ttgattaattagtcagtt 37414304

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5014 ataatttttaataaattattttatgaataaataaaa 5048
 |||||||||||||||||| || |||||||
Sbjct: 37632980 ataatttttaataaattattttataagtaataaaa 37632946

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatatattttt 5330
 |||||||||||||| |||||||||| |||||||
Sbjct: 919604 attaatttttaactaatttgtaaaacatatattttt 919637

Score = 52.0 bits (26), Expect = 0.002
Identities = 54/62 (87%), Gaps = 1/62 (1%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221
||||| ||| | ||||| ||||| || | | ||||| ||||| |||||
Sbjct: 6021881 taaatataatataaacatttttagtggttatataataattacattaattatttt-taacataa
6021939

Query: 5222 tt 5223
||
Sbjct: 6021940 tt 6021941

Score = 52.0 bits (26), Expect = 0.002
Identities = 62/74 (83%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgagagagtcacttttcttgggaatcttcct
7352
||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11473980 gtgtcccatcgtaggctaccatcccatgagagagtcatttttcttgggaatcttcctc
11473921

Query: 7353 aagctaattaattg 7366
|||| |||||
Sbjct: 11473920 aagccaattaattg 11473907

Score = 52.0 bits (26), Expect = 0.002
Identities = 64/76 (84%), Gaps = 3/76 (3%)
Strand = Plus / Minus

Query: 6907 tatactcatggtgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattt
6963
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 13176639 tatacttatggtgagcatgcttacaagcaacaacgacatgtgaacaagacatgtgtatct
13176580

Query: 6964 tttgaaatttgtcaca 6979
|||| ||||| |||||
Sbjct: 13176579 tttggaatttatcaca 13176564

Score = 52.0 bits (26), Expect = 0.002
Identities = 62/74 (83%)
Strand = Plus / Plus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttgtggaatcttcct
7352
 ||||| | ||||| ||||| | ||| ||||| ||||| ||
Sbjct: 18092342 gtgtcccatcatcgaccaccatcctatgcgaaaatccatttttcttgcggaatctcact
18092401

Query: 7353 aagctaattaattg 7366
 |||| |||||
Sbjct: 18092402 aagccaattaattg 18092415

Score = 52.0 bits (26), Expect = 0.002
Identities = 38/42 (90%)
Strand = Plus / Minus

Query: 5577 aaaaaactatgaaccaaatagagtaattttataactattta 5618
 ||||| ||| ||||| ||||| |||||
Sbjct: 24048821 aaaaaattatgtaccaaagtagagtaattttaaaactattta 24048780

Score = 52.0 bits (26), Expect = 0.002
Identities = 26/26 (100%)
Strand = Plus / Minus

Query: 6904 tcctatactcatggtgagcatgctta 6929
 ||||| ||||| ||||| |||||
Sbjct: 25800270 tcctatactcatggtgagcatgctta 25800245

Score = 52.0 bits (26), Expect = 0.002
Identities = 62/74 (83%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggttttattcttaaatttgcttgag
5073
 ||||| ||| ||||| ||||| ||||| || || ||||| ||
Sbjct: 27571744 ataattttactaaactattttatgagtaaataaaaatgtctcatccttaaatttattttag
27571803

Query: 5074 ccctctcaagtcct 5087

|||||
Sbjct: 27571804 gtctctcaagtcct 27571817

Score = 52.0 bits (26), Expect = 0.002
Identities = 53/62 (85%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattatTTTataacataa
5221

|||||
Sbjct: 27846902 taaatatacattaaaaaTTtagtattacatatagcaacattaattatTTTataagataa
27846961

Query: 5222 tt 5223
||
Sbjct: 27846962 tt 27846963

Score = 52.0 bits (26), Expect = 0.002
Identities = 44/50 (88%)
Strand = Plus / Plus

Query: 5267 aaagtcaaaagttcaattcttacttggatcattaatTTTaaattaatttg 5316
|||||
Sbjct: 35551790 aaagtcataaggttcaagTTTTatttgggtcattaatTTTaaattaatttg 35551839

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Plus

Query: 6267 ttttttttgTTTTgTTTTaaaattgTTTgt 6296
|||||
Sbjct: 41089122 ttttttttgTTTTgTTTTgaaattgTTTgt 41089151

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 1203 ctttctcggcctTTTtggttaagatcaagt 1231
||||
Sbjct: 12179706 ctttgtcggcctTTTtggttaagatcaagt 12179678

Score = 50.1 bits (25), Expect = 0.007
Identities = 46/53 (86%)
Strand = Plus / Plus

Query: 5014 ataattttaataaaattatatttatgaataaataaaaagggttttattcttaaattt 5066
 |||||
Sbjct: 22333146 ataattttaataaaactatatttatgagtaagtaaaagatctcatttttaaattt
22333198

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatat 5324
 |||||
Sbjct: 24500514 cattaatttttaaattagtttgtaaaatat 24500486

Score = 50.1 bits (25), Expect = 0.007
Identities = 48/55 (87%), Gaps = 3/55 (5%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatataca 5171
 |||||
Sbjct: 32350341 aaaattaattgtcacaaaa--agtatctaaatttacatgcacattaaatataca
32350290

Score = 50.1 bits (25), Expect = 0.007
Identities = 52/61 (85%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggttata
5191
 |||||
Sbjct: 33319567 aaaatttattatgtaaatttacatatacattagatatataaaattaaaaattttaatggttata
33319508

Query: 5192 t 5192
 |
Sbjct: 33319507 t 33319507

Score = 50.1 bits (25), Expect = 0.007
 Identities = 61/72 (84%), Gaps = 2/72 (2%)
 Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacatagaa
 5177
 |||||
 Sbjct: 34043766 aaattaattgttgaaaaatttatttttaaattt--atgtgtattaaatatatataaa
 34043709

Query: 5178 atttttagtggtta 5189
 |||||
 Sbjct: 34043708 atttttagtggtta 34043697

Score = 50.1 bits (25), Expect = 0.007
 Identities = 34/37 (91%)
 Strand = Plus / Plus

Query: 3269 aatttttgtaacagggctcttcaaaagaggaccctgca 3305
 |||||
 Sbjct: 37063900 aatttttgtaaatagggtctttgaaagaggaccctgca 37063936

Score = 50.1 bits (25), Expect = 0.007
 Identities = 49/56 (87%), Gaps = 2/56 (3%)
 Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaa 5350
 |||||
 Sbjct: 43634740 tcattgatttttaaattaatttcataaaaaatatattttt--aaaaaaaaattataaaaaa
 43634793

Score = 48.1 bits (24), Expect = 0.026
 Identities = 51/60 (85%)
 Strand = Plus / Minus

Query: 5162 taaatatacatagaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 |||||

Sbjct: 1248729 taaatatacatgagaaattttaatattatatatatcgacgttaattatTTTTTaaacataa
1248670

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/52 (86%)
Strand = Plus / Minus

Query: 5201 attaattatTTTataacataattgatgtattagttcagttggttagagcatt 5252
 |||| |
Sbjct: 2855209 attatTTatTTTataacataattgattcattagcttagttagtcagagcatt 2855158

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5548 TTTTTTTAAAAAAAAAAAAAcaa 5571
 |||||
Sbjct: 5364142 TTTTTTTAAAAAAAAAAAAAcaa 5364165

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 6889 caagatgtatgtagttcctataactcatggtga 6920
 ||||| |
Sbjct: 17159606 caagatttatgtaggtcctataactcatggtga 17159637

Score = 48.1 bits (24), Expect = 0.026
Identities = 39/44 (88%)
Strand = Plus / Plus

Query: 1205 ttctcggcctTTTggctaagatcaagtgtagtatctgttcttat 1248
 |||| |
Sbjct: 21664790 ttcttggcctTTTggctaagatcaagcgcatgtgtctgttcttat 21664833

Score = 48.1 bits (24), Expect = 0.026
Identities = 99/124 (79%)
Strand = Plus / Minus

Query: 7083 cgaactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttgttta
 7142

|||||
 Sbjct: 23309265 cgaactcaagaacatagtgagggttgtcctttctttgtgcgtcttccatagtcattta
 23309206

Query: 7143 atacttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttggt
 7202

||
 Sbjct: 23309205 gtatttttgtataaacatggtcagatctaatacattgttgcgacttctcttctctttggt
 23309146

Query: 7203 tgaa 7206
 ||||
 Sbjct: 23309145 tgaa 23309142

Score = 48.1 bits (24), Expect = 0.026
 Identities = 36/40 (90%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattg 5156
 |||||
 Sbjct: 28323354 aaaattaattatcacaaaatttattatgttaaatttacctg 28323315

Score = 48.1 bits (24), Expect = 0.026
 Identities = 45/52 (86%)
 Strand = Plus / Minus

Query: 2679 atctctctcggtaacttatgaatcaagggttatcaacatacacgtgagtcattc 2730
 |||||
 Sbjct: 28881126 atctctctcggtaactcgtgaatccaagttaccaacatacatgtgagacattc 28881075

Score = 48.1 bits (24), Expect = 0.026
 Identities = 87/108 (80%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatagg
 5175
 |||||
 Sbjct: 34905665 aaaaattaattatcataaaaatttattatgttaaatttattatgtttatgaaatatacatagg
 34905606

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataatt 5223
|| ||||| | ||||| || | ||||| ||||| |||||
Sbjct: 34905605 aatTTTaatattatatataacaacattaattatTTTataatataatt 34905558

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacaagtaa 5575
||||||| ||||| ||||| ||||| |||||
Sbjct: 37423909 ttttttttaaaaaaaaaaaaaacaagtaa 37423936

Score = 48.1 bits (24), Expect = 0.026
Identities = 114/142 (80%), Gaps = 4/142 (2%)
Strand = Plus / Plus

Query: 4758 taactgttaatctTTTTattgataccgtaa-taataattaataagtaataatTTTTatc
4816
||||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38332499 taactattattctTTTTattaactgtaaataacaattaatgaacaacaactctttata
38332558

Query: 4817 aatatcatagctttgTTtagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876
||||||| | ||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38332559 aatatcacaattttatttagaaaaaa---atttaatagtttaataattaaaaaatttaa
38332615

Query: 4877 aagTTTTctTTTatTTTtatt 4898
|| ||||| ||||| |||||
Sbjct: 38332616 aaatTTTTctTTTatTTTtatt 38332637

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5298 ttaatTTTaaattaatttgtaaaa 5321
||||||| ||||| ||||| ||||| |||||
Sbjct: 42184445 ttaatTTTaaattaatttgtaaaa 42184422

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaa 5148
 |||||
Sbjct: 44252821 aaaattaattattacaaaatttattatgtaaa 44252790

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcggctacatgga 1679
 |||||
Sbjct: 44343832 cttatcccactaggtgaggttggtacatgga 44343801

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggat 1680
 |||||
Sbjct: 2744553 gccttatccaactaagtgaggtcggctacatggat 2744587

Score = 46.1 bits (23), Expect = 0.10
Identities = 92/115 (80%)
Strand = Plus / Plus

Query: 6807 tgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgatggtta
6866
 |||||
Sbjct: 3917255 tgacattgtgaccaatatgctttattgcacaattcgccaaacaatactctatacacattt
3917314

Query: 6867 tagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgggtgag 6921
 |||
Sbjct: 3917315 gagacacttttcaacttgtagacacaagatctatgtaggccttataactcatgggtgag
3917369

Score = 46.1 bits (23), Expect = 0.10
Identities = 56/67 (83%)
Strand = Plus / Plus

Query: 5179 ttttagtggttatattttagtgaaattaattattttataacataattgatgtattagttcag
5238
 |||||
Sbjct: 8056346 ttttagtggttatatataataacattaattattttataatataaggtgacatattagtttag
8056405

Query: 5239 ttggtta 5245
 || |||
Sbjct: 8056406 ttagtta 8056412

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6484 ttaattgaaattaaaaaatatatattttaact 6514
 |||||
Sbjct: 8956140 ttaattgatattaaaaagtatatattttaact 8956110

Score = 46.1 bits (23), Expect = 0.10
Identities = 47/55 (85%)
Strand = Plus / Minus

Query: 7185 cttctctcccccttttggttgaacaatgcattacacctagtatataggttgattttac 7239
 |||||
Sbjct: 12543020 cttctctcactcttttattgaacaatgcattacaccttagatatgttgattttac
12542966

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataatt 5223
 |||||
Sbjct: 14477710 attaattattttataacataatt 14477688

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggctcggctacatgga 1679
 ||||| ||||||||| |||||||||||||
Sbjct: 17481490 ttatctcactaggtgaggtcggctacatgga 17481460

Score = 46.1 bits (23), Expect = 0.10
Identities = 50/59 (84%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacata
5220
 ||||||||||||| ||||||||||| ||| || | | |||||||||||||||||
Sbjct: 21209054 taaatatacattaaaaatTTtagtattacatacaacaatattaattTTTTataacata
21208996

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatTTtattatctaaatTT 5151
 ||||||||||||| | ||||||||||||| |||||||
Sbjct: 21637463 aaaattaattgtcataaaaatTTtattatgtaaatTT 21637497

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5201 attaattatTTTataacataatt 5223
 |||||||||||||||||||
Sbjct: 21637548 attaattatTTTataacataatt 21637570

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6185 gaaccgatttcaaaatgttcattTTTTTTTTT 6215
 ||||||||||||| ||||||| |||||||||||

Sbjct: 23165121 gaaccgatttcataatgttcctttttttttt 23165091

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattat 5143
 ||||| |||||
Sbjct: 24588443 aaaattaattattacaaaatttattat 24588469

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 26183125 ctttttttttaaaaaaaaaaaaaaac 26183103

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5239 ttggttagagcattatgttaataatgtgaaagtca 5273
 ||||| || ||||| |||||
Sbjct: 29184201 ttggttagagcattgtgctaataatatgaaagtca 29184167

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5203 taattattttataacataattga 5225
 |||||
Sbjct: 32350288 taattattttataacataattga 32350266

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 32470832 aaaattaattatcacaaaatttattatgtaaattt 32470866

Score = 46.1 bits (23), Expect = 0.10
Identities = 59/70 (84%), Gaps = 2/70 (2%)
Strand = Plus / Plus

Query: 4792 aattaataagtaataatTTTTATCAATATCATAGCTTTGTTTAGAAAAAAGAGATTTA
4851
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 33320762 aattaataaacaacaattctttaccaaaatcataattttgtttaaaaaaaaga--ttta
33320819

Query: 4852 ataattaata 4861
 ||||| |||||
Sbjct: 33320820 ataattaata 33320829

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatcta 5146
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34045851 aaaaataaattgtcacaaaatttattatcta 34045881

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5570
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34469528 ttttttttaaaaaaaaaaaaaaaca 34469550

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5568

|||||
Sbjct: 35300938 actttttttttaaaaaaaaaaaaaa 35300916

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggtatat 5192
||||| ||| |||||
Sbjct: 37282942 taaatataaattataaatttttagtggtatat 37282912

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682
||||| ||| |||||
Sbjct: 37299875 cttatcccactaggtgagatcgactacatggatca 37299909

Score = 46.1 bits (23), Expect = 0.10
Identities = 35/39 (89%)
Strand = Plus / Plus

Query: 6041 ttttttttatccaaataataaaaaaaaaattaattattta 6079
||||| ||||| ||| |||||
Sbjct: 37772113 ttttttttacccaaataatacaaatattaattattta 37772151

Score = 46.1 bits (23), Expect = 0.10
Identities = 35/39 (89%)
Strand = Plus / Plus

Query: 5290 ttggatcattaatttttaaattaatttgtaaaatatattt 5328
||||| ||||| ||||| ||| |||||
Sbjct: 39614848 ttggaccattaattataaattaaattataaaatatattt 39614886

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatattttt 5330
 |||||
Sbjct: 40188014 cattaatttttaaattaatttgtaaaacatatattttt 40188048

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 40426458 ttttttttaaaaaaaaaaaaaaaca 40426480

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 42285702 ttttttttaaaaaaaaaaaaaaaca 42285724

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggat 1680
 |||||
Sbjct: 43897736 gccttatcccattatgtgaggtcggctacatggat 43897770

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaa 5148
 |||||
Sbjct: 44153962 aaattaattgttacaaaatttaatacctaaa 44153932

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaattt 5151
 ||||| ||| ||||| |||||
Sbjct: 44252921 aaaattaattattataaaaatttattatgttaaattt 44252955

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5294 atcattaatttttaaattaattt 5315
 ||||| |||||
Sbjct: 4980674 atcattaatttttaaattaattt 4980653

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 2582 aataatattttttttctttcta 2603
 ||||| |||||
Sbjct: 6504165 aataatattttttttctttcta 6504144

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 4875 aaaagtttttcttttatttttattttgttc 4904
 ||||| ||| ||||| |||||
Sbjct: 12273770 aaaagtgtttatttttatttttattttgttc 12273741

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttta 6286
 ||||| |||||
Sbjct: 13088319 ttttttttttgtttgtttta 13088298

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 6217 aaaaccaagttaagaaatcggttcct 6242
 |||||
Sbjct: 18088195 aaaaccaagttatgaaatcggttcct 18088170

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 1846 tcttctctctacatgcccaaaccacctaag 1875
 |||||
Sbjct: 20786423 tcttctctgcacatgcccaaaccacctaag 20786452

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 22879442 ttttttttaaaaaaaaaaaaaaac 22879463

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5550 tttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 24447433 ttttttaaaaaaaaaaaaaaaca 24447412

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568

```

      ||||||||||||||||||
Sbjct: 24994277 ctttttttttaaaaaaaaaaaaaa 24994298

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

```

Query: 5294      atcattaatttttaaattaatttgtaa 5319
      |||||||||||||||||| ||||||||
Sbjct: 28323220 atcattaatttttaaattgatttgtaa 28323195

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

```

Query: 1228      aagtgtagtatctgttcttatcagtt 1253
      |||| ||||||||||||||||||||
Sbjct: 31101874 aagtatagtatctgttcttatcagtt 31101899

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```

Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
      ||||||||||||||||||
Sbjct: 32233694 ctttttttttaaaaaaaaaaaaaa 32233673

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

```

Query: 5308      attaatttgtaaaatatatttttgaa 5333
      |||||||||||||| ||||||||
Sbjct: 34000223 attaatttgtaaaacatatatttttgaa 34000198

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5160 aataaatatacattagaaattt 5181
 |||||
Sbjct: 36316404 aataaatatacattagaaattt 36316425

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctaca 1675
 |||||
Sbjct: 37114298 gccttatcccactaggtgaggtcgggttaca 37114327

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6576 gaacaaaatatttaaatttgaa 6597
 |||||
Sbjct: 38193935 gaacaaaatatttaaatttgaa 38193956

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacaagtaata 5577
 |||||
Sbjct: 38935511 ttttttttaaaaaaaaaaaaataacaagaaata 38935540

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 39091874 ttatcccactaggaggtgtcagctacatggatca 39091841

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 40827648 ctttttttttaaaaaaaaaaaaaa 40827669

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaaac 5569
|||||||
Sbjct: 41040603 ttttttttttaaaaaaaaaaaaaaac 41040582

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 41164205 acttttttttttaaaaaaaaaaaaaa 41164184

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaacaag 5572
||||||| |||||
Sbjct: 1654141 ttttttttttaaaaaaaaaaaaaacaag 1654117

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1274 attggcccatgatattaaatttattttttgaaggg 1310
||||||| ||||| |||||
Sbjct: 3207022 attggcccaagtgatattaaattcatttcttgaaggg 3206986

Score = 42.1 bits (21), Expect = 1.6
Identities = 42/49 (85%)
Strand = Plus / Plus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagc 5249
 |||| |TTTTTTTT| |TTTTTT| |||| |TTTTTTTTTTTT|
Sbjct: 3643626 attatTTtattTTtatagcgtaatTgattcattagcttagttggttagagc 3643674

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |TTTTTTTTTTTTTTTTTTTT|
Sbjct: 4104498 ttttttttaaaaaaaaaaaaaa 4104478

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaacaagtaata 5577
 |||| |TTTTTTTTTTTTTTTT| |TTTTTT|
Sbjct: 5260825 tttttgtaaaaaaaaaaaaagaagtaata 5260797

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |TTTTTTTTTTTTTTTTTTTT|
Sbjct: 5795424 ttttttttaaaaaaaaaaaaaa 5795404

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 1650 tatcccactaggtggggtcgggtacatggatca 1682

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 22099460 tttttttttaaaaaaaaaaaaaa 22099480

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 2210 gacccaagatatatttaaaccgtgtgacttg 2238
 | | | | | | | | | | | | | | | |
Sbjct: 22619434 gacccaagataacttaaaccatgtgacttg 22619406

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 23231449 tttttttttaaaaaaaaaaaaaa 23231469

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6069 ttaattattttacccaaaaaat 6089
 | | | | | | | | | | | | | | | |
Sbjct: 24245050 ttaattattttacccaaaaaat 24245030

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 2575 atttgtaaataatatTTTTTTT 2595
 | | | | | | | | | | | | | | | |
Sbjct: 24938591 atttgtaaataatatTTTTTTT 24938611

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 25170578 ctttttttttaaaaaaaaaaaaaa 25170558

Score = 42.1 bits (21), Expect = 1.6
Identities = 31/33 (93%), Gaps = 1/33 (3%)
Strand = Plus / Plus

Query: 5548 tttttttttaa-aaaaaaaaaacaagtaataaa 5579
||||||| |||||
Sbjct: 25192456 ttttttttaataaaaaaaaaaacaaggaataaa 25192488

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 26146171 ttttttttttaaaaaaaaaaaaaa 26146191

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 26341448 ctttttttttaaaaaaaaaaaaaa 26341468

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5550 ttttttaaaaaaaaaaaaaaaca 5570
|||||||
Sbjct: 26347667 ttttttaaaaaaaaaaaaaaaca 26347687

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatatttttga 5332
 |||||
Sbjct: 27846489 attaatttgtaaaacatatatatttttga 27846465

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatatatttttgaa 5333
 |||||
Sbjct: 28875255 attaatttttaaattaatttcataaatcatatatttttgaa 28875219

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5201 attaattatttttataacataattga 5225
 |||||
Sbjct: 29355455 attaattatttttataatataattga 29355479

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5312 atttgtaaaatatatatttttgaaaaa 5336
 |||||
Sbjct: 29355558 atttgtaaaatatatatttttataaaaaa 29355582

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatatttttgaaaaaaaaa 5340

```
          |||||
Sbjct: 29725695 attaatgtgtataaacatttttttttaaaaaaaaaa 29725663
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 29740545 ttttttttaaaaaaaaaaaaaa 29740565
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 31039247 ttttttttaaaaaaaaaaaaaa 31039227
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 31155785 ttttttttaaaaaaaaaaaaaa 31155765
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5545      aacttttttttaaaaaaaaaaaaaa 5565
                |||||
Sbjct: 31913829 aacttttttttaaaaaaaaaaaaaa 31913809
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 6484 ttaattgaaattaaaaaatatatatttaa 6512
 ||||| ||| ||||||||||||||||
Sbjct: 32148134 ttaattaaaaataaaaaaatatatatttaa 32148162

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 33155915 ttttttttaaaaaaaaaaaaaa 33155935

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 33218504 ttttttttaaaaaaaaaaaaaa 33218524

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 5299 taatttttaaattaatttgtaaaatatatttttgaaaa 5335
 |||||||||||||| | |||||||| ||||| |||
Sbjct: 33377747 taatttttaaattaactcgtaaaatatattttttaaaaa 33377711

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 33465536 ttttttttaaaaaaaaaaaaaa 33465556

Score = 42.1 bits (21), Expect = 1.6
Identities = 42/49 (85%)
Strand = Plus / Plus

Query: 5613 tatttatatgtcatgggttggtttaccacataagataacaagaaatgt 5661
 ||||| ||| ||| ||| ||| | |||||
Sbjct: 33499490 tatttatatgtcatgggttggtttgccacctaaaataataggaaatgt 33499538

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 35275793 tttttttttaaaaaaaaaaaaaa 35275773

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6212 ttttcaaaaccaagttaagaa 6232
 ||||| |||||
Sbjct: 36834391 ttttcaaaaccaagttaagaa 36834411

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 37579995 tttttttttaaaaaaaaaaaaaa 37580015

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 5298 ttaatttttaaattaatttgtaaaatatatttttgaaa 5334
 ||||| ||||| ||||| |||||
Sbjct: 37689331 ttaatttttaaattaggttgtaaaacatatattatgaaa 37689295

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaat 5149
 ||||| ||||| ||||||||||||||||| |||||
Sbjct: 38182802 aaaaataattattacaaaatttattatataaat 38182834

Score = 42.1 bits (21), Expect = 1.6
Identities = 51/61 (83%)
Strand = Plus / Plus

Query: 5165 atatacattagaaattttagtggttatatttagtgaaattaattattttataacataattg
5224
 ||||| ||||| ||||||||| | ||||||| || | | ||||||||||||| ||||| |||||
Sbjct: 38182835 atatatattaaaaattttaatatattatatataataatattaattattttttaacttaattg
38182894

Query: 5225 a 5225
 |
Sbjct: 38182895 a 38182895

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 2580 taaataaatatTTTTTTTcttt 2600
 |||||||||||||||||||
Sbjct: 38195465 taaataaatatTTTTTTTcttt 38195445

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 3328 atttgattacaatttcattca 3348
 |||||||||||||||||||
Sbjct: 38206596 atttgattacaatttcattca 38206576

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682
 |||||
Sbjct: 38267385 gccttatcccactaggtgaggtcagcttcatagatca 38267349

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682
 |||||
Sbjct: 38402288 gccttatctcactaggtgaagtcgactacatggatca 38402252

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 38434941 ttttttttaaaaaaaaaaaaaa 38434961

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 38484316 ttttttttaaaaaaaaaaaaaa 38484336

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 38782588 ttttttttaaaaaaaaaaaaaa 38782568

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 40033260 tttttttttaaaaaaaaaaaaaa 40033240

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 40703480 gccttatcccactaggtgaagtcacctacatggatca 40703516

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattta 6511
 |||||
Sbjct: 41885123 aaattaaaaaatatatattta 41885103

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6267 ttttttttgttttgttttaaa 6287
 |||||
Sbjct: 42309584 ttttttttgttttgttttaaa 42309604

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 42379553 tttttttttaaaaaaaaaaaaaa 42379573

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 42758617 tttttttttaaaaaaaaaaaaaa 42758637

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5576 taaaaaaactatgaacccaaaat 5596
 |||||||
Sbjct: 44266278 taaaaaaactatgaacccaaaat 44266258

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5440 taaaaaaactatgaacccaaaat 5460
 |||||||
Sbjct: 44266278 taaaaaaactatgaacccaaaat 44266258

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Plus

Query: 5296 catthaatttttaaattaatttgtaaaatatattttttg 5331
 ||||||| || | | |||||
Sbjct: 856495 catthaatttttaaattaattcgttacaaatatatttttg 856530

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 2589      ttttttttctttctaaacat 2608
                ||||||||||||||||
Sbjct: 949241 ttttttttctttctaaacat 949222
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5323      atatttttgaaaaaaaaaatt 5342
                ||||||||||||||||
Sbjct: 1440259 atatttttgaaaaaaaaaatt 1440240
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6265      ttttttttttgttttgtttt 6284
                ||||||||||||||||
Sbjct: 1547536 ttttttttttgttttgtttt 1547517
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5551      tttttaaaaaaaaaaaaaaca 5570
                ||||||||||||||||
Sbjct: 2115029 tttttaaaaaaaaaaaaaaca 2115048
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 6292      tttgtatttttattttttttgtta 6315
                |||||||||||||| |||||||
Sbjct: 3006473 tttgtatttttattttctttgtta 3006496
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6039 agttttttttatccaaataa 6058
|||||
Sbjct: 3722339 agttttttttatccaaataa 3722320

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaa 5566
|||||
Sbjct: 4249743 cttttttttaaaaaaaaaa 4249724

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaa 5568
|||||
Sbjct: 4669024 ttttttttaaaaaaaaaa 4669043

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattg 5156
||||| | | ||||| ||||| |||||
Sbjct: 4980826 aaaattaattatcataaaatttattatttaaatttacattg 4980787

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5318 aaaatatatttttgaaaaaaaaat 5341
|||| | ||||| ||||| |||||
Sbjct: 5014612 aaaacatatatttttgaaaaaaaaat 5014635

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5298 ttaatttttaaattaatttgtaaaatatatttt 5329
 ||||| |||| | ||||| |||| | ||||
Sbjct: 5492668 ttaatttttaatttaaatttgtaaaatatattttt 5492637

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||| ||||| ||||| ||||| |||||
Sbjct: 5576509 ttttttttttgttttgtttt 5576528

Score = 40.1 bits (20), Expect = 6.4
Identities = 44/52 (84%)
Strand = Plus / Plus

Query: 5040 taaataaaaaggttttatttcttaaatttgcttgagccctctcaagtccttgag 5091
 ||||| |||| | ||||| ||||| || || || ||||| ||||| |||||
Sbjct: 6369531 taaataaaaagatttcttcttaaatttatttttaggtctctcaaattccttgag 6369582

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattt 6510
 ||||| ||||| ||||| ||||| |||||
Sbjct: 6628745 aaattaaaaaatatatattt 6628764

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4880 tttttctttttatttttattt 4899
 |||||
Sbjct: 6714650 tttttctttttatttttattt 6714669

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3892 taaaaatgatttttttttaa 3911
 |||||
Sbjct: 6823539 taaaaatgatttttttttaa 6823520

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatt 5327
 ||||| || |||||
Sbjct: 6884696 cattaatttttaaattatttcgtaaaacatatatt 6884665

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||| |||||
Sbjct: 7300213 ttttttttacaaaaaaaaaaaaaaca 7300236

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactagggtg 1663
 ||||| |||||
Sbjct: 7551871 acaaagccttatcccactagggtg 7551848

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaa 5567
                ||||||||||||||||
Sbjct: 7747734 tttttttttaaaaaaaaaa 7747753
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547      cttttttttaaaaaaaaaa 5566
                ||||||||||||||||
Sbjct: 7956917 cttttttttaaaaaaaaaa 7956898
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5545      aactttttttttaaaaaaaaaa 5564
                ||||||||||||||||
Sbjct: 8332567 aactttttttttaaaaaaaaaa 8332586
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

```
Query: 7265      tttcttgagtaccaaattaactca 7292
                |||||||||||| |||||| |||||
Sbjct: 8493474 tttcttgagtaccgaattaattgactca 8493501
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 343       aaatacatagaaaaagaggg 362
                ||||||||||||||||
Sbjct: 11008408 aaatacatagaaaaagaggg 11008389
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5571
 ||||||| |||||||
Sbjct: 11179539 tttttttttaaaaaaaaaaaaaa 11179562

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaa 5566
 ||||||| |||||||
Sbjct: 11639524 cttttttttaaaaaaaaaaaaa 11639505

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
 ||||||| |||||||
Sbjct: 13305228 tttttttttaaaaaaaaaaaaa 13305209

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaatgaa 5355
 ||||||| |||||||
Sbjct: 14045436 aaaaaaaaaataataaaaaaatgaa 14045459

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
 ||||||| |||||||
Sbjct: 16261704 tttttttaaaaaaaaaaaaaa 16261723

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6260 attgcttttttttttgtttt 6279
|||||
Sbjct: 17442069 attgcttttttttttgtttt 17442050

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5544 gaacttttttttaaaaaaaaaa 5567
|||||
Sbjct: 17521101 gaacttttttttaaaaaaaaaa 17521078

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatt 5314
|||||
Sbjct: 19023370 tcattaatttttaaattaatt 19023389

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaattataaaaaaat 5352
|||||
Sbjct: 20424724 aaaaaaattataaaaaaat 20424743

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 20774483 ttttttttaaaaaaaaaaaaaa 20774464

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 20879121 ttttttttaaaaaaaaaaaaaa 20879102

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 | | | | | | | | | | | | | | | |
Sbjct: 21207253 ttttttttaaaaaagaaaaaaaca 21207276

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 21213190 ttttttttaaaaaaaaaaaaaa 21213209

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6266 ttttttttgttttgtttta 6285
 | | | | | | | | | | | | | | | |
Sbjct: 21286745 ttttttttgttttgtttta 21286764

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 6490      gaaattaaaaaatatatatt 6509
               |||||
Sbjct: 22576808 gaaattaaaaaatatatatt 22576789
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6490      gaaattaaaaaatatatatt 6509
               |||||
Sbjct: 22578674 gaaattaaaaaatatatatt 22578655
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5295      tcattaatttttaaattaatt 5314
               |||||
Sbjct: 22588490 tcattaatttttaaattaatt 22588509
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5318      aaaatatatttttgaaaaaaaaaat 5341
               ||||| |||||
Sbjct: 22634990 aaaatatatttttgaaaaaaaaaat 22635013
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

```
Query: 5319      aaatatatttttgaaaaaaaaattataa 5346
               ||||| ||||| |||||
Sbjct: 23028522 aaatatatttttgaaaataaaaattataa 23028495
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgttt 6283
|||||
Sbjct: 23106652 cttttttttttgttttgttt 23106671

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 6562 aattacaaacaatagaacaaaatatttaaatt 6593
|||||
Sbjct: 23305306 aattacaaacaatataatatttaaatt 23305337

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttatttt 4900
|||||
Sbjct: 24026759 ttttcttttatttttatttt 24026740

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 24159333 ttttttttaaaaaaaaaaaaaa 24159314

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 4886 ttttatttttattttgttcctatt 4909
|||||
Sbjct: 25050897 ttttatttttattttgttcctatt 25050920

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5549 tttttttaaaaaaaaaaaaaacaag 5572
 ||||| ||||||||||||||||
Sbjct: 25170577 tttttttaaaaaaaaaaaaaacaag 25170554

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4880 tttttcttttatttttattt 4899
 ||||||||||||||||
Sbjct: 25397661 tttttcttttatttttattt 25397680

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6493 attaaaaaatatatatttaa 6512
 ||||||||||||||||
Sbjct: 25723660 attaaaaaatatatatttaa 25723679

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 6755 acaacctttagaatttcttttcatttttgggt 6786
 ||||| ||||||||||||| |||||||||
Sbjct: 25800418 acaacttttagaatttcttaacatttttgggt 25800387

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 26756702 tttttttttaaaaaaaaaaaaaa 26756721

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5016 aattttaataaattattttatgaataaa 5043
 ||||| |||||||
Sbjct: 27191979 aattttgataaattattttataaataaa 27192006

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 28264227 tttttttttaaaaaaaaaaaaaa 28264246

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 28960400 aactttttttttaaaaaaaagaaaa 28960377

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 1649 ttatcccactaggtggggctcggtacatggat 1680
 ||||||| || || |||||
Sbjct: 29074593 ttatcccactaggtgagatcagctacatggat 29074624

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Plus

Query: 1640 acaaacgccttatcccactaggtg 1663
 ||||| ||||||||||||||||
Sbjct: 29438392 acaaaagccttatcccactaggtg 29438415

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggtcggctacatggatca 1682
 ||||||||| ||| ||| |||||||||
Sbjct: 29478143 ccttatcccaccaggttaaggtcagctacatggatca 29478108

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5559 aaaaaaaaaacaagtaataaaaaactat 5586
 ||||||||||||| ||||||| |||
Sbjct: 29487604 aaaaaaaaaacaagttataaaaatctat 29487631

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||
Sbjct: 29616788 ttttttttaaaaaaaaaaaaaa 29616807

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5254 tgттаатаатгтгаагтсга 5273
 |||||||||||||
Sbjct: 29726035 tgттаатаатгтгаагтсга 29726054

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 30099107 tttttttttaaaaaaaaaaaaaa 30099088

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5565
 ||||||||||||||||||
Sbjct: 30304184 actttttttttaaaaaaaaaaaaaa 30304203

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 |||||||||| ||| |||||||||| |||
Sbjct: 30429510 aaaattaatttttataaaaatttattatgtaaa 30429541

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatatattt 6510
 ||||||||||||||||||
Sbjct: 30601742 aaattaaaaaatatatatattt 30601723

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 31124138 tttttttttaaaaaaaaaaaaaa 31124157

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6049 atccaaataataaaaaaaaaa 6068
 |||||
Sbjct: 31363221 atccaaataataaaaaaaaaa 31363202

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3901 tttttttttaaataaaaaat 3920
 |||||
Sbjct: 31525885 ttttttttaaataaaaaat 31525866

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2587 tattttttttctttctaaac 2606
 |||||
Sbjct: 32626344 tattttttttctttctaaac 32626325

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 32642997 ttttttttttgtttgtttt 32643016

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5334 aaaaaaattataaaaaaatg 5353
 ||||||||||||||||||
Sbjct: 32901998 aaaaaaattataaaaaaatg 32901979

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||||| ||||||||||||||||
Sbjct: 33913919 tttttttcaaaaaaaaaaaaaaaca 33913896

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 34485311 ttttttttaaaaaaaaaaaaaa 34485330

Score = 40.1 bits (20), Expect = 6.4
Identities = 47/56 (83%)
Strand = Plus / Plus

Query: 6690 gaacatcatttttggtttacctgattcttgatatccattttggtgtgtatacgaga 6745
 ||||||| ||||||| | |||||| || ||||| |||||||||||| || ||||
Sbjct: 35041154 gaacatcacttttggttgatctgatttttcgatatttattttggtgtggatatgaga
35041209

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 6979 agtcacactacctttcatctagcttgac 7006
 ||||||| |||||||||||| |||||||
Sbjct: 35043505 agtcacattacctttcatccagcttgac 35043532

Score = 40.1 bits (20), Expect = 6.4

Identities = 35/40 (87%)
Strand = Plus / Plus

Query: 7202 ttgaacaatgcattacacctagtaggttgattttacca 7241
 ||||||||||||||| ||| ||| |||||||||||||
Sbjct: 35043724 ttgaacaatgcattataccttaaatatgttgattttacca 35043763

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6267 ttttttttgttttgtttta 6286
 |||||||||||||||
Sbjct: 35073500 ttttttttgttttgtttta 35073519

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 89 tgtattaaaaaatatcagaaa 108
 |||||||||||||||
Sbjct: 35196522 tgtattaaaaaatatcagaaa 35196541

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 ||||||||||||||| ||| ||||||| |||
Sbjct: 35701640 aaaattaattgttataaaaattattatgtaaa 35701671

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||||||||||||
Sbjct: 36041700 ttttttttaaaaaaaaaaaaa 36041681

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 36200307 tttttttttaaaaaaaaaaaaaa 36200326

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaaat 5341
 ||||| ||||||||||||||||
Sbjct: 36232786 aaaataaatttttgaaaaaaaaaat 36232763

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 4893 tttattttgttcctattcaattctaatt 4920
 ||||||||| ||||||| |||||||
Sbjct: 36885846 tttattttgtttctattcacttctaatt 36885819

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5133 aaatttattatctaaatttg 5152
 ||||||||||||||||||
Sbjct: 37152287 aaatttattatctaaatttg 37152306

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||

Sbjct: 37615107 ttttttttttgttttgtttt 37615088

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6197 aaatgttcattttttttttcaaaa 6220
|||||
Sbjct: 37921897 aaatgttcattttttttttcaaaa 37921920

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5564
|||||
Sbjct: 37969477 aacttttttttaaaaaaaaaa 37969496

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5568
|||||
Sbjct: 38484312 aacttttttttaaaaaaaaaa 38484335

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2798 ttactttattaaattcatat 2817
|||||
Sbjct: 38743299 ttactttattaaattcatat 38743280

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5337 aaaattataaaaaaatgaat 5356
 |||||||
Sbjct: 38841608 aaaattataaaaaaatgaat 38841627

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 39231594 ttttttttaaaaaaaaaaaaaa 39231613

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5550 tttttttaaaaaaaaaaaaaaac 5569
 |||||||
Sbjct: 39245320 ttttttttaaaaaaaaaaaaaaac 39245301

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattatt 5032
 |||||||
Sbjct: 39300461 aataattttaataaattatt 39300442

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5566
 |||||||
Sbjct: 39652892 ctttttttttaaaaaaaaaaaaaa 39652911

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaa 5565
 ||||||||||||||||||
Sbjct: 40309513 actttttttttaaaaaaaaaa 40309494

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaat 5341
 |||||||||||||||||| |||||
Sbjct: 40416885 aaaatatatttttgaaagaaaaat 40416862

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4801 gtaataattttttatcaata 4820
 ||||||||||||||||||
Sbjct: 40535014 gtaataattttttatcaata 40534995

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttatttt 4900
 ||||||||||||||||||
Sbjct: 40717486 ttttcttttatttttatttt 40717467

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaaca 5570
 ||||||| |||||||||||||||
Sbjct: 40761809 cttttttttaaaaaaaaaaaaaaca 40761832

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 40937533 tttttttttaaaaaaaaaaaaaa 40937514

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttatttt 4900
 ||||||||||||||||||
Sbjct: 41029109 ttttcttttatttttatttt 41029090

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 1640 acaaacgccttatcccactaggtg 1663
 ||||| ||||||||||||||||||
Sbjct: 41243074 acaaaagccttatcccactaggtg 41243097

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 41572280 ttttttttttgttttgtttt 41572261

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||

Sbjct: 41746986 tttttttttaaaaaaaaaaaaaa 41746967

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 41766206 tttttttttaaaaaaaaaaaaaa 41766187

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcattg 5156
|||||
Sbjct: 42263044 aaaattaattatcataaaaatttattatttaaatttacattg 42263005

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 42405261 tttttttttaaaaaaaaaaaaaa 42405280

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5566
|||||
Sbjct: 42459378 cttttttttaaaaaaaaaaaaaa 42459359

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5320 aatatatatttttgaaaaaaaaattataaaaaaa 5351
 ||||||| ||| ||||||||| |||||
Sbjct: 42703078 aatatatttatgataaaaaaattattaaaaaa 42703109

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 6338 tgtttaaattgaaaacaatattattttt 6365
 ||||||| ||||| |||||
Sbjct: 43142003 tgtttaaattgaaaataattttattttt 43141976

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacaa 5571
 ||||||| |||||
Sbjct: 43154279 tttttttttaaaaaaaaaataaacia 43154302

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaa 5565
 ||||||| |||||
Sbjct: 43479847 actttttttttaaaaaaaaaaa 43479866

Score = 40.1 bits (20), Expect = 6.4
Identities = 77/96 (80%)
Strand = Plus / Minus

Query: 5211 ttataacataattgatgtattagttcagttggttagagcattatgttaataatgtgaaag
5270
 ||||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43763401 ttataacataattgactaattaggttaagttgattagaacattacattaataatgcaaaaa
43763342

Query: 5271 tcaaaagttcaattcttacttgatcattaatttta 5306

|||||
Sbjct: 43763341 tcacatgttcgatacttggttgaccattaatttta 43763306

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 44003449 ttttttttaaaaaaaaaaaaaa 44003468

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5318 aaaatatatTTTTGAAAAAAAAAAT 5341
|||||
Sbjct: 44059987 aaaacatatTTTTGAAAAAAAAAAT 44060010

>[gb|CM000845.1](#) Glycine max chromosome 12, whole genome shotgun sequence
Length = 40113140

Score = 1608 bits (811), Expect = 0.0
Identities = 814/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 12678248 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
12678307

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 12678308 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
12678367

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 12678368 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
12678427

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 12678428 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
12678487

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 12678488 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
12678547

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 12678548 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12678607

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 12678608 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
12678667

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 12678668 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
12678727

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 12678728 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
12678787

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 12678788 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
12678847

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 12678848 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
12678907

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 12678908 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
12678967

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 12678968 ctccaagtttccaacctctcattcaactccccctcgactctccaaggaggactatgtca
12679027

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 12679028 tctgcaaaaagcatgcatctcggcgctatctcttg 12679062

Score = 1608 bits (811), Expect = 0.0
Identities = 814/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 23889290 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
23889231

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 23889230 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
23889171

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 23889170 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
23889111

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

|||||
Sbjct: 23889110 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
23889051

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||

Sbjct: 23889050 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
23888991

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 23888990 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
23888931

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 23888930 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
23888871

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 23888870 cttaccgtagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
23888811

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 23888810 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
23888751

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 23888750 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
23888691

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 23888690 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
23888631

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 23888630 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
23888571

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 23888570 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
23888511

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||||||||||||||||||||||||||||
Sbjct: 23888510 tctgcaaaaagcatgcatctcggcgctatctcttg 23888476

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
||||||||||||||||||||||||||||||||
Sbjct: 27652692 aacgccttatccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
27652751

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
||||||||||||||||||||||||||||||||
Sbjct: 27652752 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
27652811

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
||||||||||||||||||||||||||||||||
Sbjct: 27652812 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
27652871

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
||||||||||||||||||||||||||||||||
Sbjct: 27652872 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
27652931

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
||||||||||||||||||||||||||||||||
Sbjct: 27652932 tccaccatcttctctacaataggcgctactccaaccctctctctaataagctttgtttcta
27652991

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
||||||||||||||||||||||||||||||||
Sbjct: 27652992 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27653051

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 27653052 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
27653111

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 27653112 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
27653171

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 27653172 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
27653231

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 27653232 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
27653291

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 27653292 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
27653351

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 27653352 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
27653411

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 27653412 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
27653471

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 27653472 tctgcaaaaagcatgcatctcggcgctatctcttg 27653506

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 9500945 aacgccttatcccactaggtgggggtcagctacatggatcaacttccgccataatgttcta
9501004

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 9501005 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
9501064

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 9501065 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
9501124

Query: 1823 ctctctactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 9501125 ctctctactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
9501184

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 9501185 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
9501244

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 9501245 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
9501304

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 9501305 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccgggt
9501364

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 9501365 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
9501424

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccctt
2182

|||||
Sbjct: 9501425 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccctt
9501484

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 9501485 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
9501544

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 9501545 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
9501604

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 9501605 cattccatatactccgatttgcttctacttaggcgaaagccatgtgtttctagagctcgt
9501664

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 9501665 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
9501724

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 9501725 tctgcaaaaacatgcatctcggcgctatctcttg 9501759

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 14863937 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
14863996

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 14863997 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
14864056

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 14864057 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
14864116

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 14864117 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
14864176

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 14864177 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
14864236

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 14864237 attttatcctgtcagagtctgaccacacatccaccgcaacatcctcatctccgctacacct
14864296

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 14864297 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
14864356

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 14864357 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
14864416

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 14864417 accctcgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
14864476

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 14864477 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagga
14864536

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 14864537 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
14864596

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 14864597 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
14864656

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 14864657 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
14864716

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 14864717 tctgcaaaaagcatgcatctcggcgctatctcttg 14864751

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 17992248 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
17992189

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 17992188 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
17992129

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 17992128 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
17992069

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 17992068 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
17992009

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 17992008 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
17991949

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 17991948 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
17991889

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 17991888 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
17991829

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 17991828 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
17991769

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 17991768 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
17991709

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 17991708 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
17991649

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 17991648 ataatatggtctcctatctttcacctctgagttagaaaccctccttcttttgttgaactta
 17991589

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 17991588 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 17991529

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 17991528 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
 17991469

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 17991468 tctgcaaaaagcatgcatctcggcgctatctcttg 17991434

Score = 1576 bits (795), Expect = 0.0
 Identities = 810/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 8984691 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 8984750

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
 1762

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 Sbjct: 8984751 tcaagtaccatacttttatccaaatcattaagttcgagatccttttgataacctctctt
 8984810

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 8984811 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 8984870

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatctt
 1882

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 Sbjct: 8984871 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatctt
 8984930

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 8984931 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
8984990

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 8984991 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
8985050

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 8985051 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
8985110

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 8985111 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
8985170

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 8985171 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
8985230

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 8985231 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
8985290

Query: 2243 ataatatggtctcctattttccctctgagttagaaaaccctccttcttttggtgaactta
2302

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Sbjct: 8985291 ataatatggtctcctattttccctctgagttagaaaaccctccttcttttggtgaactta
8985350

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

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Sbjct: 8985351 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
8985410

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 8985411 ctccacgtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
8985470

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 8985471 tctgcaaaaagcatgcatctcggcgctatctcttg 8985505

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 32526183 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
32526124

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 32526123 tcaagtaccatacttcgatccaaaccattaatttcgagatcctttttgataacctctctt
32526064

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 32526063 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
32526004

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcatttt
1882

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Sbjct: 32526003 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcatttt
32525944

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 32525943 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
32525884

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 32525883 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
 32525824

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

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 Sbjct: 32525823 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 32525764

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
 2122

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 Sbjct: 32525763 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
 32525704

Query: 2123 acccccgatgcttttctccatttcattcatcctgcttgaatgcgatgattcacatccct
 2182

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 Sbjct: 32525703 acccccgatgcttttctccatttcattcatcctgcttgaatgcgatgattcacatccct
 32525644

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

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 Sbjct: 32525643 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 32525584

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
 2302

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 Sbjct: 32525583 ataatatgggtctcctattttcacctctgagttagaaatcctccttcttttgttgaaactta
 32525524

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 32525523 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 32525464

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 32525463 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 32525404

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 32525403 tctgcaaaaagcatgcatctcggcgctatctcttg 32525369

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 22677717 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
22677658

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 22677657 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
22677598

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 22677597 atagtcttttttaggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
22677538

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882
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Sbjct: 22677537 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
22677478

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 22677477 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
22677418

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 22677417 gttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
22677358

Query: 2003 actttattctcatgttgggtctttgaccgccccaacatttctgttccgtacaaaatcgccgggt
2062
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Sbjct: 22677357 actttattctcatgttgggtctttgaccgccccaacatttctgttccgtacaaaatcgccgggt
22677298

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 22677297 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
22677238

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 22677237 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
22677178

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 22677177 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
22677118

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctcctttttgttgaactta
2302

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Sbjct: 22677117 ataatatggtctcctattttcacctctgagttagaaaccctcctttttgttgaactta
22677058

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 22677057 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
22676998

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 22676997 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
22676938

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 22676937 tctgcaaaaagcatgcatctcggcgctatctcttg 22676903

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 32613489 aacgccttatcccactaggtggggctcggctacatggatcaacttcgccataatgttcta
32613548

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 32613549 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
32613608

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 32613609 atagtctttttgggtcttcctctgcctcgaatagttgtcttctctccatctggtctact
32613668

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 32613669 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
32613728

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 32613729 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttatg
32613788

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 32613789 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
32613848

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 32613849 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccgat
32613908

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 32613909 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
32613968

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 32613969 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
 32614028

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 32614029 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 32614088

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 32614089 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 32614148

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 32614149 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 32614208

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 32614209 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 32614268

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 32614269 tctgcaaaaagcatgcatctcggcgctatctcttg 32614303

Score = 1552 bits (783), Expect = 0.0
 Identities = 808/815 (99%), Gaps = 1/815 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 17763052 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 17762993

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 17762992 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 17762933

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 17762932 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
17762873

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

|||||
Sbjct: 17762872 ctctcactatagagtctaccggtcttctctctacatgcccaccacctaagtctattt
17762813

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 17762812 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
17762753

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 17762752 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
17762693

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 17762692 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
17762633

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 17762632 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatca-ataac
17762574

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 17762573 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
17762514

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 17762513 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
17762454

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 17762453 ataatatggtctcctattttcacctctgagttagaaatcctccttcttttgttgaactta
17762394

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 17762393 cattccctataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
17762334

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 17762333 ctccaagtttccaacctctcattcaactcctccgtcgactctccaaggaggactatgtca
17762274

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 17762273 tctgcaaaaagcatgcatctcggcgctatctcttg 17762239

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 4783749 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
4783808

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 4783809 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
4783868

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 4783869 ataggctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
4783928

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||

Sbjct: 4783929 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
4783988

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 4783989 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
4784048

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 4784049 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
4784108

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 4784109 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcaccggt
4784168

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 4784169 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
4784228

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

|||||
Sbjct: 4784229 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
4784288

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 4784289 tcaatttcccatcatcctgtattacagaccaagatatttaaaccatgtgacttgaggg
4784348

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 4784349 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
4784408

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 4784409 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
4784468

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 4784469 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
4784528

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 4784529 tctgcaaaaagcatgcatctcggcgctatctcttg 4784563

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 25409731 aacgccttatcccactaggtggggtcgactacatggatcaacttccgccataatgttcta
25409672

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 25409671 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
25409612

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 25409611 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
25409552

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctat
1882

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Sbjct: 25409551 ctctcactacagagtctaccggtcttctctctacatgcctaaaccacctaagttctat
25409492

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942

|||||
Sbjct: 25409491 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
25409432

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 25409431 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25409372

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 25409371 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
25409312

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 25409311 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
25409252

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 25409251 acccctgatgcttttctccatttcacccatcctacttgaatgcgatgattcacatcccct
25409192

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 25409191 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
25409132

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 25409131 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
25409072

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 25409071 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctaaagctcgt
25409012

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 25409011 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
25408952

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 25408951 tctgcaaaaagcatgcatctcggcgctatctcttg 25408917

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 37404249 aacgccttatcccactaggtggggtcggctatatggatcaacttccgccataatgttcta
37404190

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 37404189 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
37404130

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 37404129 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
37404070

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 37404069 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
37404010

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|| |||||
Sbjct: 37404009 tctaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
37403950

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 37403949 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
37403890

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||

Sbjct: 37403889 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
37403830

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 37403829 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
37403770

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

|||||
Sbjct: 37403769 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
37403710

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 37403709 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
37403650

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 37403649 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
37403590

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 37403589 cattccatataactccgatatgcttctgcttaggcgaaagccatgtgtttctagagctcgt
37403530

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 37403529 ctccaagtttctaacctctcattcaactcctccctcgactctccaaggaggactatgtca
37403470

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 37403469 tctgcaaaaagcatgcatctcggcgctatctcttg 37403435

Score = 1521 bits (767), Expect = 0.0
Identities = 804/815 (98%), Gaps = 1/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 250782 aacgccttatcccactaggtggggctcggctacatggatcaacttccgtcataatgttcta
250723

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 250722 tcaagtactatacttctatccaaaccattgagttcgagatcctttttataacctctctt
250663

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 250662 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctggtctact
250603

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 250602 ctctcactacagagtctaccggtcttctctctacatgctcaaaccacctaagtctattt
250543

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 250542 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
250483

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 250482 attttatcctgtcaagtcttaccacacatccaccgcaacatcctcatctccgctacacct
250423

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 250422 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
250364

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 250363 cttaccgcaatccgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
250304

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccct
2182

Sbjct: 250303 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccct
250244

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

Sbjct: 250243 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
250184

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

Sbjct: 250183 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
250124

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

Sbjct: 250123 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
250064

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

Sbjct: 250063 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
250004

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

Sbjct: 250003 tctgcaaaaagcatgcatctcggcgctatctcttg 249969

Score = 1519 bits (766), Expect = 0.0
Identities = 778/782 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

Sbjct: 23143331 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
23143272

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 23143271 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
23143212

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 23143211 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
23143152

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 23143151 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
23143092

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 23143091 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
23143032

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 23143031 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
23142972

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 23142971 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
23142912

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 23142911 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
23142852

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 23142851 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
23142792

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 23142791 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
23142732

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 23142731 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
23142672

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 23142671 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
23142612

Query: 2363 ctccaagtttccaacctctcattcaactcctcctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 23142611 ctccaagtttccaacctctcattcaattcctcctcgactcaccaaggaggactatgtca
23142552

Query: 2423 tc 2424
||

Sbjct: 23142551 tc 23142550

Score = 1507 bits (760), Expect = 0.0
Identities = 803/816 (98%), Gaps = 1/816 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 8676932 aacgccttatcccactacgtggggctcagctacatggatcaacttccgccataatgttcta
8676873

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 8676872 tcaagtaccataacttctatccaaatcattaagttcagatcctttttgataacctctctt
8676813

Query: 1763 atagtctttttggg-tcttcctctgcctcgaattgtttgtcttctctccatctgggtctac
1821

|||||
Sbjct: 8676812 atagtctttttggggcttctcctctgcctcgaattatttcgcttctctccatctgatctac
8676753

Query: 1822 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatt
1881

|||||
Sbjct: 8676752 tctcctcactacagagtctaccggtcttctctctacgtgcccaaaccacctaagtctatt
8676693

Query: 1882 ttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttct
1941

|||||
Sbjct: 8676692 ttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttct
8676633

Query: 1942 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
2001

|||||
Sbjct: 8676632 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
8676573

Query: 2002 tactttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccgg
2061

|||||
Sbjct: 8676572 tactttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccgg
8676513

Query: 2062 tcttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataa
2121

|||||
Sbjct: 8676512 tcttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataa
8676453

Query: 2122 cacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
2181

|||||
Sbjct: 8676452 cacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
8676393

Query: 2182 ttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2241

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Sbjct: 8676392 ttcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
8676333

Query: 2242 gataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactt
2301

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Sbjct: 8676332 gataatatgatctcctattttccacctctgagttataaaccctccttcttttgttgaactt
8676273

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
2361

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Sbjct: 8676272 acattccatataactccgatttgcttctgcttaggcgaaaacccatgtgtttctagagctcg
8676213

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

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Sbjct: 8676212 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
8676153

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 8676152 atctgcaaaaagcatgcatctcggcgctatctcttg 8676117

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 3094870 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
3094929

Query: 1703 tcaagtaccatacttctatccaaaccatttaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 3094930 tcaagtaccatacttctatccaaatcatttaagttcgagatccttcttgataacctctctt
3094989

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 3094990 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctgggtctact
3095049

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 3095050 ctctcactacagagtctaccggtcttctctctacatgcctaaaccacctaagtctattt
3095109

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

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Sbjct: 3095110 tccaccatcttctctacaataggcgctactccaaccctctctctaataagctccatttcta
3095169

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 3095170 attttatcctgtcgagtccttaccacacatccaccacaacatcctcatctccgctacacct
3095229

Query: 2003 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 3095230 actttagtctcatgttggtccttgaccgcccacattctgttccgtacaaaatcaccggt
3095289

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 3095290 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
3095349

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 3095350 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
3095409

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 3095410 tcaatttctccatcatcctgtattacagacccaagatatttaaaccatgtgacttgaggg
3095469

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 3095470 ataatatggtctcctattttcacctctgagttagataccctcctacttttggtgaactta
3095529

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

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Sbjct: 3095530 cattccatatactcctatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
3095589

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 3095590 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
3095649

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||||||||||||||||||||||||||||
Sbjct: 3095650 tctgcaaaaagcatgcatctcggcgctatctcttg 3095684

Score = 1491 bits (752), Expect = 0.0
Identities = 801/816 (98%), Gaps = 1/816 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 4621249 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
4621308

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 4621309 tcaagtaccatacttctatccaaatcattcagttcgagatccttcttgataacctctctt
4621368

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 4621369 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
4621428

Query: 1823 ctctcactacagagtctaccggtcttct-ctctacatgcccaaaccacctaagtctatt
1881
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Sbjct: 4621429 ctctcactacagagtctaccggtcttcttctctacatgcccaaatacctaagtctatt
4621488

Query: 1882 ttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttct
1941
||||||||||||||||||||||||||||||||
Sbjct: 4621489 ttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttct
4621548

Query: 1942 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
2001
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Sbjct: 4621549 aattttatcctgtcgagtcttaccacacatccaccacaacatcctcatctccacaacacc
4621608

Query: 2002 tactttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccgg
2061

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Sbjct: 4621609 tactttagtctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccgg
4621668

Query: 2062 tcttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataa
2121

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Sbjct: 4621669 tcttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataa
4621728

Query: 2122 caccgccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccc
2181

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Sbjct: 4621729 cacctccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccc
4621788

Query: 2182 ttcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgagg
2241

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Sbjct: 4621789 ttcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgagg
4621848

Query: 2242 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactt
2301

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Sbjct: 4621849 gataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactt
4621908

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
2361

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Sbjct: 4621909 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
4621968

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

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Sbjct: 4621969 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
4622028

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 4622029 atctgcaaaaagcatgcatctcggcgctatctcttg 4622064

Score = 1475 bits (744), Expect = 0.0
Identities = 789/804 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 4864905 aacgccttatctcactaggtggggctcggctacatggatcaacttccgccataatgttcta
4864846

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 4864845 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
4864786

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

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Sbjct: 4864785 atagtctttttgggtcttcctctgtctcgaattgtttgcttctcctccatttggtctact
4864726

Query: 1823 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 4864725 ctctctactacagagtctgccggtcttctctctacatgcccaaaccacctaagtctattt
4864666

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942

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Sbjct: 4864665 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
4864606

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 4864605 attttatcctgtctagtcttaccacacatccaccgcaacatcctcatctctgctacacct
4864546

Query: 2003 actttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 4864545 actttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccggt
4864486

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 4864485 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
4864426

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccctt
2182

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Sbjct: 4864425 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccctt
4864366

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 4864365 tcaatttctccatcatcctatattacagaccaagatatttaaaccgtgtgacttgaggg
4864306

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 4864305 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
4864246

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 4864245 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
4864186

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 4864185 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
4864126

Query: 2423 tctgcaaaaagcatgcatctcggc 2446

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Sbjct: 4864125 tctgcaaaaagcatgcatctcggc 4864102

Score = 1465 bits (739), Expect = 0.0
Identities = 796/815 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 20054689 aacgccttatcccactaggtggagtcggctacatggatcaacttctgccataatgttcta
20054630

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 20054629 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
20054570

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 20054569 atagtctttttgggtcttctctgcctcgaattgtttgcctcctctccatctggtctact
20054510

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 20054509 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
20054450

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 20054449 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
20054390

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 20054389 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
20054330

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 20054329 actttagtctcatgttgggtcttgaccgcctaacattttgtttcggtacaaaatcgccggt
20054270

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 20054269 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
20054210

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 20054209 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
20054150

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 20054149 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
20054090

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 20054089 ataatacgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
20054030

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 20054029 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
20053970

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 20053969 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
20053910

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 20053909 tctacaaaaagcatgcatctcggcgctatctcttg 20053875

Score = 1441 bits (727), Expect = 0.0
Identities = 757/767 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 24356501 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
24356560

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 24356561 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
24356620

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 24356621 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
24356680

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 24356681 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
24356740

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

Sbjct: 24356741 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
24356800

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 24356801 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
24356860

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

Sbjct: 24356861 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccagt
24356920

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 24356921 cttatcgagtcgaataaaaactttcccttttagcttgatcggtacctttgcatcacataac
24356980

Query: 2123 acccccgatgcttttctccatctcatccatcctgcttgaatgcgatgattcacatccct
2182

Sbjct: 24356981 acccccgatgcttttctccatctcatccatcctgcttgaatgcgatgattcacatccct
24357040

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

Sbjct: 24357041 tcaatttcccatcatcctatattacagaccaagatatttaaaccgtgtgacttgaggg
24357100

Query: 2243 ataatatgggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 24357101 ataatatgggtctcctatttttcacctctgagttagaaaccctccttctttttgttgaactta
24357160

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 24357161 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagcttgt
24357220

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaag 2409
|||||

Sbjct: 24357221 ttccaagtttccaacctctcattcaactcctccctcgactctccaag 24357267

Score = 1354 bits (683), Expect = 0.0
Identities = 695/699 (99%)
Strand = Plus / Plus

Query: 1759 tcttatagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtc
1818

|||||
Sbjct: 37844452 tcttatagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtc
37844511

Query: 1819 tactctcctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtct
1878

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Sbjct: 37844512 tactctcctcactacagagtctaccggtcttctctctacatgctcaaaccacctaagtct
37844571

Query: 1879 attttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggt
1938

|||||
Sbjct: 37844572 attttccaccatcttctctacaataggcgctactccaaccatctctctaatagcttcggt
37844631

Query: 1939 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
1998

|||||
Sbjct: 37844632 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
37844691

Query: 1999 acctactttattctcatgttgggtcttggaccgccccaacatttctgttccgtacaaaatcgc
2058

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Sbjct: 37844692 acctactttattctcatgttgggtcttggaccgccccaacatttctgttccgtacaaaattgc
37844751

Query: 2059 cggtcttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcaca
2118

|||||

Sbjct: 37844752 cggtcttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcaca
37844811

Query: 2119 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
2178

|||||

Sbjct: 37844812 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
37844871

Query: 2179 cccttcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttg
2238

|||||

Sbjct: 37844872 cccttcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttg
37844931

Query: 2239 agggataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaa
2298

|||||

Sbjct: 37844932 agggataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaa
37844991

Query: 2299 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
2358

|||||

Sbjct: 37844992 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
37845051

Query: 2359 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
2418

|||||

Sbjct: 37845052 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
37845111

Query: 2419 gtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||

Sbjct: 37845112 gtcatctgcaaaaagcatgcatctcggcgctatctcttg 37845150

Score = 960 bits (484), Expect = 0.0
Identities = 517/528 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 9441297 aacgccttatcccactaggtggggtcggctacatggatcaactttcgccataatggttcta
9441238

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 9441237 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctttctt
9441178

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822

|||||
Sbjct: 9441177 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
9441118

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 9441117 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
9441058

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttctta
1942

|||||
Sbjct: 9441057 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttctta
9440998

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 9440997 attttatcatgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
9440938

Query: 2003 actttattctcatgttggtctttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 9440937 actttagtctcatgttggtctttgaccgcccacattctgttccgtacaaaatcgtcggt
9440878

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 9440877 cttaccgcagttcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
9440818

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatga 2170

|||||
Sbjct: 9440817 acccccgatgcttttctccatttcatccatcctgcttgaatgcatga 9440770

Score = 942 bits (475), Expect = 0.0
Identities = 487/491 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 24401945 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
24401886

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 24401885 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
24401826

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 24401825 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
24401766

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 24401765 ttctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
24401706

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 24401705 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
24401646

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 24401645 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
24401586

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 24401585 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgctgggt
24401526

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 24401525 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 24401466

Query: 2123 acccccgatgc 2133
 ||||||||||||
 Sbjct: 24401465 acccccgatgc 24401455

Score = 940 bits (474), Expect = 0.0
 Identities = 489/494 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 4775194 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 4775253

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 4775254 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 4775313

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 4775314 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 4775373

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 4775374 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 4775433

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
 1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 4775434 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
 4775493

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
Sbjct: 4775494 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
4775553

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 4775554 actttattctcatgttggctcttgaccgcccacattctgttctgtacaaaatcaccggt
4775613

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 4775614 cttaccgtagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
4775673

Query: 2123 acccccgatgcttt 2136
|||||
Sbjct: 4775674 acccccggtgcttt 4775687

Score = 862 bits (435), Expect = 0.0
Identities = 462/471 (98%), Gaps = 5/471 (1%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 38386987 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
38386928

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 38386927 tcaagtactatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
38386868

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 38386867 atagtctttttgggtcttcc-----ctcgaattgtttgtcttctctccatctggtctact
38386813

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 38386812 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
38386753

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 38386752 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
38386693

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 38386692 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38386633

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcgctacaaaatcgccggt
2062

|||||
Sbjct: 38386632 actttattctcatattggctcttgaccgccaacattctgttcgctacaaaatcgccagt
38386573

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgca 2113

|||||
Sbjct: 38386572 cttaccgcagtcgataaaaactttccctttaacttgatcggtacctttgca 38386522

Score = 823 bits (415), Expect = 0.0
Identities = 442/451 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 19618017 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
19617958

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

|||||
Sbjct: 19617957 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataaacctctctt
19617898

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 19617897 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
19617838

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 1882

|||||
 Sbjct: 19617837 ctctcactacagagtctatcggtcttctctctacatgcccaaaccacctaagtctatatt
 19617778

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

|||||
 Sbjct: 19617777 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 19617718

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 19617717 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 19617658

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 19617657 actttagtctcatggttggtctcttgatcgccaacattctgttccgtacaaaatcgctcggt
 19617598

Query: 2063 cttaccgcagtcgataaaaactttcccttta 2093

|||||
 Sbjct: 19617597 cttaccgcagtcgataaaaactttcccttta 19617567

Score = 777 bits (392), Expect = 0.0
 Identities = 398/400 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggtacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 3761008 aacgccttatcccactaggtgggggtcggtacatggatcaacttccgccataatgttcta
 3760949

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 3760948 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 3760889

Query: 1763 atagtctttttgggtcttctctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||

Sbjct: 3760888 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 3760829

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 1882

|||||
 Sbjct: 3760828 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 3760769

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

|||||
 Sbjct: 3760768 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 3760709

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 3760708 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 3760649

Query: 2003 actttattctcatgttggtctttgaccgccaacattctg 2042

|||||
 Sbjct: 3760648 actttattctcatgttggtctttgaccgccaacattctg 3760609

Score = 771 bits (389), Expect = 0.0
 Identities = 401/405 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgtttcta
 1702

|||||
 Sbjct: 6089228 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgtttcta
 6089169

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 6089168 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 6089109

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 6089108 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 6089049

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
 1882
 ||||||||||||||||||
 Sbjct: 6089048 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
 6088989

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
 1942
 ||||||||||||||||||
 Sbjct: 6088988 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
 6088929

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002
 ||||||||||||||||||
 Sbjct: 6088928 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
 6088869

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccg 2047
 ||||||||||||||||||
 Sbjct: 6088868 actttattctcatgttgggtcttgaccgctcaacattctgttccg 6088824

Score = 577 bits (291), Expect = e-161
 Identities = 322/331 (97%), Gaps = 1/331 (0%)
 Strand = Plus / Minus

Query: 1646 gccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
 1705
 ||||||| ||||||||||||||||||
 Sbjct: 1629397 gccttatccactaggtgggggtcggctaaatggatcaacttccgccataatgttctatca
 1629338

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
 1765
 ||||||||||||||||||
 Sbjct: 1629337 agtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctcttata
 1629278

Query: 1766 gtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctactctc
 1825
 ||||||||| ||||| ||||||||||||||||||
 Sbjct: 1629277 gtctttttggatcttc-tctgcctcgaattgtttgtcttctctccatctgggtctactctc
 1629219

Query: 1826 ctccactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatttcc
 1885

|||||
Sbjct: 1629218 ctcactacagagtctaccggtcttctctctacatgcacaaaccacctaagtctattttcc
1629159

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctaatt
1945

|||||
Sbjct: 1629158 accatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctaatt
1629099

Query: 1946 ttatcctgtcgagtcttaccacacatccacc 1976
|||||
Sbjct: 1629098 ttatcctgtcgagtcttaccacacatccacc 1629068

Score = 351 bits (177), Expect = 1e-93
Identities = 189/193 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 25564783 aacgccttatcccactaggtgaggtcggctacatggatcaacttccgccataatgttcta
25564842

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762
|||||
Sbjct: 25564843 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataaacctctctt
25564902

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822
|||||
Sbjct: 25564903 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
25564962

Query: 1823 ctctcactacag 1835
|||||
Sbjct: 25564963 ctctcactacag 25564975

Score = 228 bits (115), Expect = 1e-56
Identities = 124/127 (97%)
Strand = Plus / Plus

```
Query: 5183      agtgttatatttagtgaaattaattattttataacataattgatgtattagttcagttgg
5242            |||||
Sbjct: 5856475   agtgttatatataacgacattaattattttataacataattgatctattagcttagttgg
5856534
```

Query: 5243 ttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaat
5302

Sbjct: 5856535 ttagaatgtcacgctaataacatgaaagtcacatgtttgattcttgtttgggtcattaat
5856594

Query: 5303 tttaaattaatttgtaaaatatatTTTTGAAAAAAAAATTATAAAA 5348

[illegible]

Score = 176 bits (89), Expect = 4e-41
Identities = 107/113 (94%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccaactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

Sbjct: 39250834 aacgccttatcccaactaggtagggtcgactacatggatcaacttcagccataatgttcta
39250893

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataac 1755

Sbjct: 39250894 tcaagtaccatacttataatccaaatcattaagttcgagatcctttttgataac
39250946

Score = 172 bits (87), Expect = 7e-40
Identities = 90/91 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

Sbjct: 1470252 aacgccttatccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1470311

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733

Sbjct: 1470312 tcaagtaccatacttctatccaaatcattaa 1470342

Score = 159 bits (80), Expect = 1e-35
Identities = 188/224 (83%)

Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
 Sbjct: 39666445 aaaattaattattacaaaattaattatttaaatttacatgtgcattaaatatatgttaaa
 39666504

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
 Sbjct: 39666505 aattttaattattatatataatgacattaattattttataataaatttaactattaattc
 39666564

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296

||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
 Sbjct: 39666565 agttggtagagtgtcatgttaataatacaaaaatcacatattcaatttctacttgaact
 39666624

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340

||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
 Sbjct: 39666625 attaatttttaaattaatttcgtaaaatatatttttgaaaaaaaaa 39666668

Score = 153 bits (77), Expect = 6e-34
 Identities = 116/129 (89%)
 Strand = Plus / Minus

Query: 5119 aattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaa
 5178

||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
 Sbjct: 26612550 aattaattatcacaaaatttattatgtaaatttacatgtgcattaaatatatacattagaaa
 26612491

Query: 5179 ttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcag
 5238

||||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
 Sbjct: 26612490 ttttagtggttatatataatgacattaattagtttataacataattgatctattagctcag
 26612431

Query: 5239 ttgggttaga 5247

||||||| |
 Sbjct: 26612430 ttgggttaga 26612422

Score = 153 bits (77), Expect = 6e-34
 Identities = 137/157 (87%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||||||||||||||||| ||| |||| | | ||| | ||||||||| |||| |
 Sbjct: 34963841 aaaattaattggttacaaaatttagtatgtaaacttatatgtgtattaaatatatattata
 34963782

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||||||||||||| ||| || ||||||||||||||||||||||||||| |||||||||
 Sbjct: 34963781 aattttagtggttatatatagcgacattaattattttataacataattgatctattagttc
 34963722

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273
 | ||||||| |||||| | | |||||| |||||||||
 Sbjct: 34963721 aattggtaaagcattgtgctaataacgtgaaagtca 34963685

Score = 151 bits (76), Expect = 2e-33
 Identities = 168/199 (84%), Gaps = 6/199 (3%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattag
 5175
 ||||||||||||||||||||||||||| ||||||| |||| | | |||||||||||||
 Sbjct: 5856180 aaaaattaattggttacaaaatttattatataaaatttacatgtgcattaaatatacattag
 5856121

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235
 |||||||||||||||| ||| || ||||||||||||||||||||||| |||||| | |||| |
 Sbjct: 5856120 aaattttagtggttatatatagcgatatattaattattttataatataattgacttattaact
 5856061

Query: 5236 cagttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
 5295
 | ||||||| | ||| ||||||| ||||||||| | ||| ||||| |||||
 Sbjct: 5856060 c-----ttagagcttcatgctaataatatgaaagtcatatgttgccttcttgcttgggc
 5856007

Query: 5296 cattaatttttaaattaatt 5314
 |||||||||||||||||
 Sbjct: 5856006 cattaatttttaaattaatt 5855988

```
Query: 5297      attaatnttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
                |||
Sbjct: 7112120  attaatnttttaaattaatttgtaaaatatatttttgaaaaaaaaa 7112077
```


Score = 147 bits (74), Expect = 4e-32
Identities = 80/82 (97%)
Strand = Plus / Minus

Query: 1963 accacacatccaccgcaacatcctcatctccgctacacctaatttattctcatgttggt
2022

|||||
Sbjct: 1629070 accacacatccaccgcaacatcctcatctccgctatacctaatttattctcatgttggt
1629011

Query: 2023 cttgaccgcccacattctgtt 2044

|||||
Sbjct: 1629010 cttgaccgcctaacattctgtt 1628989

Score = 147 bits (74), Expect = 4e-32
Identities = 104/114 (91%)
Strand = Plus / Plus

Query: 5133 aaatttattatctaaatttgcattgcacaataaatatacattagaaatttttagtggttat
5192

|||||
Sbjct: 32963588 aaatttattatgtaaaatttgcattgcacaataaatatacattagaaatttttagtggttat
32963647

Query: 5193 ttagtgaaattaattattttataacataattgatgtattagttcagttgggttag 5246

|| |||
Sbjct: 32963648 ataattgacattaattattttataacataattgggtctattagttcagttgggttag
32963701

Score = 145 bits (73), Expect = 1e-31
Identities = 181/217 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

|||||
Sbjct: 22378046 aaaattaattatcgcaaaaatttattatttaaatttatatgtgcattaaatatacattata
22378105

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 22378106 aatttttagtggttatataataaacattatattttataacataattggtctattaactc
22378165

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 22378166 agttggtagaacgtcgtgttagtaatgcgaaagtcataatgtttgacttctatttggacc
22378225

Query: 5297 attaattttaaattaatttgtaaaatatatttttgaa 5333
|||||
Sbjct: 22378226 attaattttaaattaatttcgtaaaacatatatttttgaa 22378262

Score = 145 bits (73), Expect = 1e-31
Identities = 181/217 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 24094384 aaaattaattgtcacaaaatttattatctaaatttatatatgcattaaatataacaataga
24094325

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 24094324 aattttattggttatataaagcgacattaattattttataacataattggcctattagctt
24094265

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

| |||
Sbjct: 24094264 aattgattagagtgtcattataataatgagaaagtcacatgttcaattcatgcatgaact
24094205

Query: 5297 attaattttaaattaatttgtaaaatatatttttgaa 5333
|||||
Sbjct: 24094204 attaattttaaattaatttcgtaaaacatatatttttgaa 24094168

Score = 143 bits (72), Expect = 6e-31
Identities = 105/116 (90%)
Strand = Plus / Plus

Query: 5133 aaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtatat
 5192
 |||||
 Sbjct: 32970930 aaatttattatgtaaatctacatgtgcattaaatatacattagaaatttttagtggtatat
 32970989

Query: 5193 ttagtgaaattaattattttataacataattgatgtattagttcagttggtagag 5248
 || |||
 Sbjct: 32970990 ataatgacattaattattttataacataattgggtctattagctcagttggtagag
 32971045

Score = 139 bits (70), Expect = 9e-30
 Identities = 166/198 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 4520422 aaaattaattgtcacaaaatttattatttaaatttacatgcgtattaaatatacattaga
 4520481

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 4520482 aatttttagtggtatgtatagcaacattatttattttataatgtaattgattcattagttc
 4520541

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggtatc
 5296
 |||||
 Sbjct: 4520542 agttgggttagagtgtgtgctagtaacctaaaagtcacaggtctgattcttgcttgggccc
 4520601

Query: 5297 attaatTTTTAAATTAATT 5314
 |||||
 Sbjct: 4520602 attaatTTTTAAATTAATT 4520619

Score = 135 bits (68), Expect = 1e-28
 Identities = 161/190 (84%), Gaps = 9/190 (4%)
 Strand = Plus / Minus

Query: 4757 ataactgttaatctttttattgataccgtaa-taataattaataagtaataattttttat
 4815
 |||||

Sbjct: 7618641 ataactgttaatctttttatttagtatcgtaagtaataattaatgagtaacaactctttat
 7618582

Query: 4816 caatatcatagctttggttag-aaaaaaagagatttaataattaatagctaaagaaatcc
 4874

|||||
 Sbjct: 7618581 caatatcatagctttatttagaaaaaaaagagat-----ttaatagttaaagaaatct
 7618529

Query: 4875 aaaagtttttcttttatttttattttgttcctattcaattctaattttgtcatttttttc
 4934

||||
 Sbjct: 7618528 aaaaaaatttcttttatttctatttctcttcctattcaattctgattttgttttttttctc
 7618469

Query: 4935 actgtctctc 4944

|||||
 Sbjct: 7618468 actgtctctc 7618459

Score = 135 bits (68), Expect = 1e-28
 Identities = 116/132 (87%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 9931943 aaaattaattatcataaaaatttattatttaaatttacatgtacattaaatatacattaga
 9932002

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 9932003 aatttttagtggttatatatagaaatattattttattttataacataatggacatattagttg
 9932062

Query: 5237 agttgggtagag 5248

|||||
 Sbjct: 9932063 agttgggtagag 9932074

Score = 135 bits (68), Expect = 1e-28
 Identities = 125/144 (86%)
 Strand = Plus / Minus

```
Query: 5118 aaattaattgttacaaaattttattatctaaatttgcacataaatatacattagaa
5177      |||||||
Sbjct: 75847 aaattaattgtcacaaaacttattatttaaatttacatgcgcattaaatatacattagaa
75906
```


Sbjct: 33346447 aaaattaattgtcacaaaatttattattttaatttacatgcacattaaatatacattaaa
33346506

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 33346507 aatttttagtggttatgtata--acattatttattttataacataattgggtctattagctc
33346563

Query: 5237 agttggtaga 5247

|||||
Sbjct: 33346564 agttgattaga 33346574

Score = 129 bits (65), Expect = 9e-27
Identities = 110/125 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176

|||||
Sbjct: 35745433 aaaattaattgttacaaaatttattatataaaatttatatgtatattaaatatacattaaa
35745374

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 35745373 aatttttagtggttatatataacgacattaattattttttaacataattgggtctattagatc
35745314

Query: 5237 agttg 5241

|||||
Sbjct: 35745313 agttg 35745309

Score = 127 bits (64), Expect = 3e-26
Identities = 136/159 (85%), Gaps = 2/159 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataa--atatacatta
5174

|||||
Sbjct: 14432828 aaaattaattgtcacaaaatttattatgtatattgacatgtgcattaaatatacatta
14432769

Query: 5175 gaaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagt
5234

|||||
Sbjct: 14432768 gaaatTTtagtgTtatatatattgacattaattatTTTataacattattggcctatgagc
14432709

Query: 5235 tcagttggTtagagcattatgttaataatgtgaaagtca 5273

|||||
Sbjct: 14432708 tcagttggTtagagcgttgTgttaataacgggaaagtca 14432670

Score = 127 bits (64), Expect = 3e-26
Identities = 103/116 (88%)
Strand = Plus / Plus

Query: 5136 tttattatctaaattTgcatgcacaataaatatacattagaaatTTtagtgTtatattta
5195

|||||
Sbjct: 32369579 tttattatctaaattTacatgtgcattaaatatacattagaaatTTtagtgTtatatata
32369638

Query: 5196 gtgaaattaattatTTTataacataattgatgtattagttcagttggTtagagcat 5251

| | |||||
Sbjct: 32369639 gcaacattaactatTTTataacataattgacctattagcttagttggTtagagcat
32369694

Score = 127 bits (64), Expect = 3e-26
Identities = 97/108 (89%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaattTgcatgcacaataaatatacattag
5175

|||||
Sbjct: 32970922 aaaaattaattgttacaaaatttattatgtaaattTacatgtgcattaaatatacattga
32970863

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataatt 5223

|||||
Sbjct: 32970862 aaatTTtagtgTtatatatagcaacattaattatTTTataacataatt 32970815

Score = 125 bits (63), Expect = 1e-25
Identities = 63/63 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 85670 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
85729

Query: 1703 tca 1705
|||
Sbjct: 85730 tca 85732

Score = 125 bits (63), Expect = 1e-25
Identities = 96/107 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
|||||
Sbjct: 11192248 aaaattaattggtcacaaaatttattatttaaatttacatacgcatataaatatgcattaga
11192189

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
|||||
Sbjct: 11192188 aatttttagtggttatatatagtaacattattttattttataacataatt 11192142

Score = 123 bits (62), Expect = 5e-25
Identities = 182/222 (81%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
|||||
Sbjct: 256192 aaaattaattggtcacaaaattgattatttaaatttacatacgcatataaatatacattata
256133

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 256132 aatttgagtggttatgtataacaacattattttattttataatgtaattgactcattaactc
256073

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgggac
5296
|||||

Sbjct: 256072 agttggtagagtgttgactaataacttgaaagtcatagatttaattcttgcttgacc
 256013

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttGaaaaaaa 5338
 |||||||||||||||||||| | | |||||||| ||||||||
 Sbjct: 256012 attaatTTTaaattaatttGtcacaaatatTTTtaaaaaaaa 255971

Score = 123 bits (62), Expect = 5e-25
 Identities = 162/194 (83%), Gaps = 1/194 (0%)
 Strand = Plus / Plus

Query: 5119 aattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaa
 5178
 |||||||||||||||||||||||| |||| | | || | | |||||||||||||| |||
 Sbjct: 3541240 aattaattgttacaaaatttattatgtaaacttatatgtgtattaaatatacattaaaaa
 3541299

Query: 5179 -ttttagtgttatatttagtgaaattaattattttataacataattgatgtattagttca
 5237
 |||||| | |||| | |||| | |||||||| | |||||| | | |||| | |
 Sbjct: 3541300 attttagtattatatatagtgacgttaattattttttaacataattaatctattagctta
 3541359

Query: 5238 gttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatca
 5297
 || | || | |||| | |||||| | |||||| | | |||| | | || | |
 Sbjct: 3541360 gttagttaaagcattgtgttaataacgtgaaagtcacatattcaatacttgtatggggca
 3541419

Query: 5298 ttaattttaaatta 5311
 |||||||||||||
 Sbjct: 3541420 ttaattttaaatta 3541433

Score = 121 bits (61), Expect = 2e-24
 Identities = 124/145 (85%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
 5175
 |||||||||||| | | |||||||| | | || | | || | | || ||||||||||||
 Sbjct: 2142198 aaaaattaattgtcataagatttattatgtaagttacatgtgcattaaatatacattaa
 2142139

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235
 ||| ||||| ||||| || | | ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 2142138 aaaatttagtggttatatataataatattaattattttataacataattgatttattaatt
 2142079

Query: 5236 cagttggtagagcattatgttaat 5260
 ||||| ||||| ||| |||||
 Sbjct: 2142078 tagttggtagaacatcgtgttaat 2142054

Score = 121 bits (61), Expect = 2e-24
 Identities = 124/145 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
 5176
 ||||| ||| ||||| ||||| ||||| ||| || || ||||| |||||
 Sbjct: 4831645 aaaattaactgtcacaaaatttattatgtaaatttacttgtgcattaaatatacattaga
 4831704

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||| || | || | || ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 4831705 aatttttagtattaaatatacgacattaattgttttataacataattggcctattagctc
 4831764

Query: 5237 agttggtagagcattatgttaata 5261
 ||||| ||||| ||||| |||||
 Sbjct: 4831765 agttggtagagcgttatgctaata 4831789

Score = 121 bits (61), Expect = 2e-24
 Identities = 97/109 (88%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 24094480 aaaattaattgtcacaaaatttattatctaaatttacctgtgcattaaatatacattaga
 24094539

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 ||||| ||||| || | || | ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 24094540 ttttttattgttatatataacgacattaattattttataacataattga 24094588

Score = 119 bits (60), Expect = 9e-24
Identities = 114/132 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| | ||||| ||||| ||||| | ||||| |||||
Sbjct: 4831454 aaaattaattgtcataaaaatttattatgtaaatttacatgtgtattaaatatacattaga
4831395

Query: 5177 aattttagtggttatattttagtgaaattaattatttataacataattgatgtattagttc
5236
 ||||| | || | | ||||| ||||| ||||| ||||| ||||| |
Sbjct: 4831394 aattttagtggttaaataataataattaattatttataacataattgacttattagctt
4831335

Query: 5237 agttggtagag 5248
 | |||||
Sbjct: 4831334 aattggtagag 4831323

Score = 119 bits (60), Expect = 9e-24
Identities = 96/108 (88%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175
 ||||| | || ||||| ||||| ||||| || || ||||| |||||
Sbjct: 32963580 aaaaattaattatttcaaaaatttattatgtaaatttacatgtgcattaaatatacattga
32963521

Query: 5176 aaattttagtggttatattttagtgaaattaattatttataacataatt 5223
 ||||| ||||| || | ||||| ||||| ||||| |||||
Sbjct: 32963520 aaattttagtggttatatatagcgacattaattatttataacataatt 32963473

Score = 119 bits (60), Expect = 9e-24
Identities = 114/132 (86%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175
 ||||| ||||| || | ||||| ||||| | ||||| |||||
Sbjct: 34037477 aaaaattaattgtcacaaaatttattgtgtaaatttacatgtgtattaaatataaattag
34037536

[illegible]

Sbjct: 3119168 attttagtggttatataacgatattaattattttataacataattgacccattagttca
3119109

Query: 5238 gttgggt 5243
|||||
Sbjct: 3119108 gttgggt 3119103

Score = 115 bits (58), Expect = 1e-22
Identities = 173/210 (82%), Gaps = 1/210 (0%)
Strand = Plus / Minus

Query: 5131 caaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggttat
5190
|||||
Sbjct: 35467853 caaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagcggttat
35467794

Query: 5191 attttagtgaaattaattattttataacataattgatgtattagttcagttgggttagagca
5250
| | | | |
Sbjct: 35467793 gtataacaacattattta-tttataatgtaattgacttattagcttgggttgattagagct
35467735

Query: 5251 ttatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaatt
5310
| | | | |
Sbjct: 35467734 ttgtactaataacctgaaagtcacataatttagttcttacttggaccattaatttttaaatt
35467675

Query: 5311 aatttgtaaaatatatttttgaaaaaaaaa 5340
|||||
Sbjct: 35467674 aattcgtcacaaatatatttttgaaaaaaaaa 35467645

Score = 111 bits (56), Expect = 2e-21
Identities = 86/96 (89%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtta
5189
|||||
Sbjct: 4439177 acaaaatttattatgtaaatttgcacatgcacaataaatatacattagaaatttttagtggtta
4439236

Query: 5190 tatttagtgaaattaattattttataacataattga 5225

|||||
Sbjct: 4439237 tatataataatattaattatTTTtataacataattga 4439272

Score = 111 bits (56), Expect = 2e-21
Identities = 113/132 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

|||||
Sbjct: 11098476 aaaattaattgtcataaaatgtattatTTTaaatttacatgtgcattaaatatacattaga
11098417

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTtataacataattgatgtattagttc
5236

|||||
Sbjct: 11098416 aatttttagtggttatataataacaacattatTTTtataacataattgacccattagatc
11098357

Query: 5237 agttgggtagag 5248

|||||
Sbjct: 11098356 ggttgggtagag 11098345

Score = 107 bits (54), Expect = 3e-20
Identities = 123/146 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

|||||
Sbjct: 7806106 aaaattaattatcacaaaatttattatataaaatttacatgtgtattaaatatacattaaa
7806047

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTtataacataattgatgtattagttc
5236

|||||
Sbjct: 7806046 aatatttagtggttatatagcaacattaattatTTTtataacgtaattagcctattagttc
7805987

Query: 5237 agttgggtagagcattatgttaataa 5262

|||||
Sbjct: 7805986 agttgtttagaatattatgctaataa 7805961

Score = 105 bits (53), Expect = 1e-19
 Identities = 95/109 (87%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| | ||||| ||||| ||||| ||| ||| ||||| |||
 Sbjct: 7806476 aaaattaattatcacaaaacttattatgtaaatttacatgtacattagatatacattaaa
 7806535

Query: 5177 aattttagtggttatatttagtgaaattaattatttataacataattga 5225
 ||||| ||||| ||| | ||||| ||||| ||||| |||||
 Sbjct: 7806536 aattttagtggttatataataatattaattatttataatataattga 7806584

Score = 103 bits (52), Expect = 5e-19
 Identities = 115/136 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| | ||||| ||||| ||||| || ||| ||||| ||||| |
 Sbjct: 677061 aaaattaattatcacaaaacttattatataaaatttatatacattaaatatacattaaa
 677002

Query: 5177 aattttagtggttatatttagtgaaattaattatttataacataattgatgtattagttc
 5236
 ||||| | ||||| ||||| ||||| ||||| || ||| ||||| ||||| |
 Sbjct: 677001 aattttaattatataatagtgacattaattatttataaatatgattgatctattaactt
 676942

Query: 5237 agttggtagagcatt 5252
 ||||| ||||| |||||
 Sbjct: 676941 agttggtagaacatt 676926

Score = 103 bits (52), Expect = 5e-19
 Identities = 192/236 (81%), Gaps = 2/236 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| ||||| ||| ||||| ||||| ||||| ||| || ||||| ||||| |||||
 Sbjct: 11098606 aaaattaattgtcacataatttattatttaaatttacatatgcattaaatatacattaga
 11098665

Query: 7509 tcttcaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaa
7568

Sbjct: 16604056 tcttcaaaactagattcaaggttcattgcttgagtgaggtattcctccaaaccctcaaaa
 16604115

Query: 7569 ttcaaagagcttgcagaaactggtggtggttgatgcatatgtttatgtgggtgtgtctacg
 7628

|| ||||| || || ||| ||||| ||||| ||||| ||||| ||| ||||| ||
 Sbjct: 16604116 ttgaaagagttttcaaaaattggtggtggatgtgcacatgtttatgtagggttggtctgcg
 16604175

Query: 7629 gtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacata
 7688

||| ||| ||| ||||| ||||| ||||| || || ||| | ||| ||| ||||| ||
 Sbjct: 16604176 gtggtaatatataactccaggcatgtgagcttagagatgtctgcgaacataaaaaacata
 16604235

Query: 7689 gtaattatttctcatcatcttgcagcatacatgccctgtactgaaaacaatcaccaaca
 7748

|| || | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 16604236 gtcatcacatcctcatcattgtgcaacatgcatgccatgtacttgccacaatcaccaaca
 16604295

Query: 7749 aatgatac 7756
 |||||

Sbjct: 16604296 aatgatac 16604303

Score = 103 bits (52), Expect = 5e-19
 Identities = 94/108 (87%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
 5176

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 37912364 aaaattaattgtcacaaaatttattatttaaatttatatgcacattaaatatatattaaa
 37912423

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattg 5224
 ||||| ||||| ||||| || || | ||||| ||||| ||||| |||||

Sbjct: 37912424 aattttagtggttatatataacaacattatttattttataatataattg 37912471

Score = 101 bits (51), Expect = 2e-18
 Identities = 104/121 (85%), Gaps = 3/121 (2%)
 Strand = Plus / Minus

Query: 5121 ttaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatt
5180

||||| ||||||||| ||||||| ||| || ||||||| ||||||| |||
Sbjct: 287715 ttaattattacaaaatttattatttaatttacatgtgcattaaatatatattagatatt
287656

Query: 5181 ttagtggttatatttagtgaaattaattatatttataacataattgatgtattagttcagtt
5240

||||||| || | |||| | ||||||||| ||||||||| ||||||| |||||||
Sbjct: 287655 ttagtggttatatata---acattatttatttataatataattgatctattagctcagtt
287599

Query: 5241 g 5241
|
Sbjct: 287598 g 287598

Score = 101 bits (51), Expect = 2e-18
Identities = 111/131 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

||||||| ||||||||| ||||||| ||| || | ||||||||| |||||||||
Sbjct: 11950288 aaaattaattggttacaaaatttattatgtaaacttatatgtgtattaaatatatacattaga
11950347

Query: 5177 aatttttagtggttatatttagtgaaattaattatatttataacataattgatgtattagttc
5236

||||||| |||| | ||| ||||||||| ||||||||| | |||||||||
Sbjct: 11950348 aatttttagtagaatatatattgacgttaattatatttttaacataatgaacctattagttc
11950407

Query: 5237 agttgggttaga 5247
|||||||
Sbjct: 11950408 agttgggttaga 11950418

Score = 101 bits (51), Expect = 2e-18
Identities = 112/131 (85%), Gaps = 1/131 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

||||||| ||||||||| ||||||| ||| | ||||||||| |||||||
Sbjct: 13376177 aaaattaattggttacaaaatttattatataaaattt-atgtgtattaaatatatattaga
13376119

Score = 99.6 bits (50), Expect = 8e-18
Identities = 83/94 (88%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcacatgcacataaatatacattagaaatttttagtggtata
5191

|||||
Sbjct: 6481843 aaaatttattatttaaatttacatgcgcattaaatatgcattagaaattgtagtgatata
6481784

Query: 5192 ttttagtgaaattaattattttataacataattga 5225
| |||| | |||| |||||

Sbjct: 6481783 tatagtaacattatttattttataacataattga 6481750

Score = 99.6 bits (50), Expect = 8e-18
Identities = 112/132 (84%), Gaps = 3/132 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacatgcacataaatatacattaga
5176

|||||
Sbjct: 33346244 aaaattaatagtcacaaaatttattattttaaatttacatgcgcattaaatatacattaga
33346185

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| |||||
Sbjct: 33346184 aagtttagtggttatgtata---acattatttattttataatataattgacctattaactc
33346128

Query: 5237 agttggtagag 5248
| |||||

Sbjct: 33346127 aattggtagag 33346116

Score = 97.6 bits (49), Expect = 3e-17
Identities = 113/133 (84%), Gaps = 1/133 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacatgcacataaatatacattaga
5176

|||||
Sbjct: 35468036 aaaattaattgtcacaaaatttattgttttaaatttacatgg-cattaaatatacattaga
35468094

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||

Sbjct: 35468095 aatttttagtgttatgtatagcaacattatattttttataatataattggccttattagctt
35468154

Query: 5237 agttgggtagagc 5249
|||||||
Sbjct: 35468155 ggtaggtagagc 35468167

Score = 97.6 bits (49), Expect = 3e-17
Identities = 130/156 (83%), Gaps = 2/156 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||||| ||| ||||| ||||| ||||| ||| | ||||| |||||
Sbjct: 38338133 aaaattaattgtcacaa--tttattatttaaatttacatgtatattaaatatagggttaga
38338190

Query: 5177 aatttttagtgttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236
||||||| ||||| || | ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 38338191 aatttttagtgttatatataacaacattatattttttataatataattgacttattagctc
38338250

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtc 5272
|||| ||| ||| | ||| ||||| ||||| ||
Sbjct: 38338251 agttgattaaagcgtcatgctaataatttgaaagtc 38338286

Score = 97.6 bits (49), Expect = 3e-17
Identities = 101/117 (86%), Gaps = 1/117 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||||| ||||| ||||| ||||| ||||| ||| ||| | ||||| ||||| |
Sbjct: 38394035 aaaattaattcttacaaaatttattatgttaaacttatatgtgtattaaatatacattt-a
38394093

Query: 5177 aatttttagtgttatatttagtgaaattaattatttttataacataattgatgtattag
5233
||||||| ||||| || | ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 38394094 aatttttagtgttatatataacgaaattaattattttttaacataattgatttattag
38394150

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 132/160 (82%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTTtagtgTTatatttagtgaaattaattatTTTtataacataa
 5221
 |||
 Sbjct: 8501570 taaatatacattagaaatTTTtagtattatatataatgacattaattatTTTtataacataa
 8501629

Query: 5222 ttgatgtattagttcagttggTTtagagcattatgTTaataatgtgaaagtcaaaagttca
 5281
 |||
 Sbjct: 8501630 taggtctattaacttataTgTTtagaacgTcgTgTTaataatctgaatgtcacatgTTta
 8501689

Query: 5282 attcTTacttggaTcattaattTTTaaattaatttGTaaaa 5321
 |||
 Sbjct: 8501690 aatcctacatgggctattaattTTTaaattaattTTTaaaa 8501729

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 94/108 (87%), Gaps = 1/108 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgTTacaaaatttattatctaaatttgcTgcacaataaatatacattaga
 5176
 |||
 Sbjct: 24097137 aaaattaattatcacaaaatttattattTaaatttacatgcgcattaaatatacattag-
 24097079

Query: 5177 aatTTtagtgTTatatttagtgaaattaattatTTTtataacataattg 5224
 |||
 Sbjct: 24097078 aatTTtattgTTatataataatattattaattTTTtataacataattg 24097031

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 127/153 (83%), Gaps = 3/153 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgTTacaaaatttattatctaaatttgcTgcacaataaatatacattaga
 5176
 |||
 Sbjct: 15582602 aaaattaattgtcacaaaatttattattTaaatttacatgaacattgaatatattaga
 15582661

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

Sbjct: 15582662 aaat tttgatgttatatata---acattattttattttatatcataattggattattagttt
15582718

Query: 5237 agttggttagagcattatgttaataatgtgaaa 5269

Sbjct: 15582719 agttggctaaaacatcatattaataatttgaaa 15582751

Score = 93.7 bits (47), Expect = 5e-16
Identities = 110/131 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176

Sbjct: 16142071 |||||
16142012

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

Sbjct: 16142011 aatttttagtagtatatatatcgacattaattatttttcaacataattggcttattagctc
16141952

Query: 5237 agttggtaga 5247

Sbjct: 16141951 ||||| 16141941

Score = 93.7 bits (47), Expect = 5e-16
Identities = 92/107 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

Sbjct: 22357582 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
22357523 aaaattaatagtcacaaaatttattatttaaatttacatgtgcattaaataaaattaga

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataatt 5223

Sbjct: 22357522 aatttttaagtgatatatatagcaatattatctatttttataacataatt 22357476

Query: 5261 aatgtgaaagtcaaaagttcaattcttacttggatcattaattttaaattaatttgtaa
5320

Sbjct: 37107356 aataggaaagtcacaaattcaagatttatatg-atcattaatttttaaattatgtttaa
37107414

Query: 5321 atatattttt 5330
 |||||
Sbjct: 37107415 atatattttt 37107424

Score = 89.7 bits (45), Expect = 8e-15
Identities = 84/97 (86%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataataacaacaaaaatttttaaatacaacaatatggcataa
6639
 |||||
Sbjct: 9681635 aaaatattttaaatttgaaacaataacaacaaaaatttttaaatacaagaatatgatataa
9681576

Query: 6640 aattaatgttggttgagcctacacaatggggg 6676
 |||||
Sbjct: 9681575 attcaacgttggttgcttaagcttacatgatggggg 9681539

Score = 89.7 bits (45), Expect = 8e-15
Identities = 93/109 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 35745594 aaaattaattgttacaaaattaattatataaatttatatgtgtattaaatatacattata
35745653

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||||
Sbjct: 35745654 aatttttaattgttatataacgaaattaattacttttgaacataattga 35745702

Score = 87.7 bits (44), Expect = 3e-14
Identities = 53/56 (94%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaa 5351
 |||||
Sbjct: 287567 cattaatttttaaattaatttgtaaaacatatatttttgaaaaaaaaataaaaaaaa 287512

```
Query: 5177      aatttttagtgttatatatttagtgaaattaattattttataacataatt 5223
                |||||||
Sbjct: 15563072 aattttagtgttatataataaqqacattaattattttatatcataatt 15563026
```

[illegible]

Sbjct: 37489569 ttaatTTTTTTtattggtacggttaagtaacaattaatgagtaacacctcttcattaatatc
37489628

Query: 4823 atagctttgTTtagaaaaaaagagatttaataattaatagctaaagaaatccaaaagttt
4882

| | ||| |||||||||||||| ||||||| |||||||||||||| ||| |
Sbjct: 37489629 acaatTTTtatttagaaaaaaagatatTTtaataagTTaatagctaaagaaatttaaaaaaat
37489688

Query: 4883 ttctTTta-----TTTTtatttTgtTctattcaattctaattttTgtcattTTTTtc
4934

||||||| ||||||| | ||||||||||||||||||||||| |||
Sbjct: 37489689 ttctTTtatttctattTTTTtattctctTctattcaattctaattttTgtc-----ttc
37489742

Query: 4935 actgtctctcgTacttctctgtcttctcacctgtttcttcagTTtacttgattatt 4990
| |||||||||||||| ||||||| || | ||||||| |||||||||||||||

Sbjct: 37489743 a---tctctcgTacttcttTgtcttctaacttacttcttcaatttacttgattatt
37489795

Score = 81.8 bits (41), Expect = 2e-12
Identities = 92/109 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaaatttattatctaaatttgcTgcacaataaatatacattaga
5176

||||||||| | | |||||||||||||| |||| | ||||| || ||||||| |||||||
Sbjct: 11012255 aaaattaattatcataaaaatttattattttaaTgtacTgcgcattaaatTgcattaga
11012314

Query: 5177 aatttttagTgttatattttagTgaaattaattattttataacataattga 5225

|||| ||||| || | |||| | |||| |||||||||||||| |||||||
Sbjct: 11012315 aattatagTgatTgtatagTaaattatttattttataacctaattga 11012363

Score = 81.8 bits (41), Expect = 2e-12
Identities = 104/125 (83%)
Strand = Plus / Plus

Query: 5121 ttaattgttacaaaaatttattatctaaatttgcTgcacaataaatatacattagaaatt
5180

|||||||||||||||||||| |||| | ||| | | |||||||||||||||
Sbjct: 34963990 ttaattgttacaaaaatttattatgtTaaacttatTgagTattcaatatacattagaaatt
34964049

Query: 5181 ttagtggttatatttagtgaaattaattatattttataacataattgatgtattagttcagtt
 5240
 ||| ||||| || || ||||| ||||| || ||||| ||||| |||||
 Sbjct: 34964050 ttaatggttatataacgacattaattatattttataatagaattgggtctattaaatcactt
 34964109

Query: 5241 ggtta 5245
 |||||
 Sbjct: 34964110 ggtta 34964114

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 73/84 (86%)
 Strand = Plus / Minus

Query: 5014 ataattttaataaattatatttatgaataaataaaagggtttattcttaaatttgcttgag
 5073
 ||||| |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 24038822 ataattttattaaactatatttatgagtaataaaaagatctcattcttaaatttgctttag
 24038763

Query: 5074 ccctctcaagtccttgagccgccc 5097
 || ||||| |||||
 Sbjct: 24038762 atctttcaagtccttgaaccgccc 24038739

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 84/99 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 11060835 aaaattaattgtcacaaaatttcttatataaaatttacatgtgtattaaatatacatataa
 11060894

Query: 5177 aatttttagtggttatatttagtgaaattaattatattttata 5215
 || ||||| ||||| || || ||||| |||||
 Sbjct: 11060895 aaatttagtattatataacgacattaattatattttata 11060933

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 110/132 (83%), Gaps = 5/132 (3%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

|||||
Sbjct: 28712592 aaaattaattgtcacaa--tttattatttaaatttacatacgcatataaatatacattaaa
28712649

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||
Sbjct: 28712650 aaatttagtggttatatata---acattatttattttataacataattaaattattaactc
28712706

Query: 5237 agttggtagag 5248

|
Sbjct: 28712707 aattggtagag 28712718

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

|||||
Sbjct: 36731546 aaaattaattattataaaaatttattatgtaaatttacatgtatattaaatatattcaa
36731605

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223

|||||
Sbjct: 36731606 aatttttagtggttatatataacaacattaatcattttatatcataatt 36731652

Score = 75.8 bits (38), Expect = 1e-10
Identities = 101/120 (84%), Gaps = 4/120 (3%)
Strand = Plus / Minus

Query: 6882 gtatacacaagatgtatgtagttcctatactcatggtgagcatg-cttataa---acaac
6937

|||||
Sbjct: 9681309 gtatacacaagatgtatgtagttcgtgtacttatggatcatttcttacaagcaacaac
9681250

Query: 6938 aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
6997

|||||
Sbjct: 9681249 aacataagaacaaggcatgtacaatttcttgaatttgtcacagtcacaccacctttcatc
9681190

Score = 73.8 bits (37), Expect = 5e-10
Identities = 79/93 (84%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTTtagtgTTatatttagtgaaattaattatTTTtataacataa
5221
||||| ||||||| ||||||| || || | ||||| ||||||| |||||||
Sbjct: 75692 taaatttacattagaaatTTTaatgTTatatataacaacattatttattTTtataacataa
75633

Query: 5222 ttgatgtattagttcagttggTTtagagcattat 5254
|||| | ||||| || | |||||| | || ||||
Sbjct: 75632 ttgacctattagctcaattggTTtaaagcgTTat 75600

Score = 73.8 bits (37), Expect = 5e-10
Identities = 52/57 (91%)
Strand = Plus / Minus

Query: 5284 tcttacttggaTcattaatTTTtaaattaatttGTaaaatatatTTTtgaaaaaaaa
5340
|||| | ||||| ||||||| ||||||| || || ||||||| ||||||| |||||||
Sbjct: 11192089 tcttgcttggaTccattaatTTTtaaattaattcataaaatatatTTTtgagaaaaaa
11192033

Score = 73.8 bits (37), Expect = 5e-10
Identities = 82/97 (84%)
Strand = Plus / Plus

Query: 5165 atatacattagaaatTTTtagtgTTatatttagtgaaattaattatTTTtataacataattg
5224
||||| ||||||| ||||||| || || | ||||| ||||||| |||||||
Sbjct: 13313148 atatacattagaaatTTTactgTTatatataacaatattatttattTTtataacataattg
13313207

Query: 5225 atgtattagttcagttggTTtagagcattatgttaata 5261
||||| | ||||||| || | || |||||||
Sbjct: 13313208 gcctattagcttagttggTTtagatcgTTgtgttaata 13313244

Score = 73.8 bits (37), Expect = 5e-10

Identities = 83/97 (85%), Gaps = 1/97 (1%)
Strand = Plus / Minus

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 34236148 aatttttagtggttatataataacattatttattttataatataattagtttattaactc
34236089

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273
|||||
Sbjct: 34236088 agttg-ttagagtatcatgttaataatgtgaaagtca 34236053

Score = 69.9 bits (35), Expect = 7e-09
Identities = 66/75 (88%), Gaps = 1/75 (1%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattggttacaaaatttattatctaaatttgcacacaataaatatacatta
5174
|||||
Sbjct: 4962283 aaaaaattaattggttacaaaatttatt-tttaaatttacatgcgtattaaatatacatta
4962225

Query: 5175 gaaattttagtggtta 5189
||
Sbjct: 4962224 aaatttttaatgtta 4962210

Score = 69.9 bits (35), Expect = 7e-09
Identities = 75/87 (86%), Gaps = 1/87 (1%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataattttttattc
4816
|||||
Sbjct: 9985254 taactgctaactctttttattgatatcataagtaacaattaatgagcaacaacttttcac
9985313

Query: 4817 aatatcatagctttgttttagaaaaaaa 4843
|||||
Sbjct: 9985314 aatattatagctttgtatagaaaaaaa 9985340

Score = 69.9 bits (35), Expect = 7e-09

Identities = 35/35 (100%)
Strand = Plus / Minus

Query: 5298 ttaatttttaaattaatttgtaaaatatatttttga 5332
 |||||
Sbjct: 33761070 ttaatttttaaattaatttgtaaaatatatttttga 33761036

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/54 (90%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaaaaaggttttattcttaaatttg 5067
 |||||
Sbjct: 7615275 ataattttaataaactattttatgagtaaaaaagtctcattcttaaatttg 7615222

Score = 65.9 bits (33), Expect = 1e-07
Identities = 86/103 (83%), Gaps = 3/103 (2%)
Strand = Plus / Plus

Query: 5145 taaatttgcatgcacaataaatatacattagaaatttttagtggttatatttagtgaaatta
5204
 |||||
Sbjct: 32216595 taaatttacatgtacattaaatatacattagaaattttaatggttatatagagagaca---
32216651

Query: 5205 attatttttataacataattgatgtattagttcagttgggttaga 5247
 |||||
Sbjct: 32216652 attatttttataacataattaacctattaacttagttgggttaga 32216694

Score = 65.9 bits (33), Expect = 1e-07
Identities = 87/105 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 33761230 aaaattaattgtgacaaaatttattatttaaatttatatgtgcattaaatatatattaa
33761171

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataa 5221
 |||||
Sbjct: 33761170 aatttttaattatataataacaattattttattttataatataa 33761126

Score = 65.9 bits (33), Expect = 1e-07
Identities = 51/57 (89%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattatTTTataaca
5218
 ||||| ||| ||||| ||||| || || || ||||| ||||| |||||
Sbjct: 38132530 taaatatatattaaaaatTTtagtgTTaaatataatgatattaattatTTTataaca
38132586

Score = 63.9 bits (32), Expect = 4e-07
Identities = 59/68 (86%)
Strand = Plus / Minus

Query: 5130 acaaaatTTtattatctaaatTTgcatgcacaataaatatacattagaaatTTtagtgTTa
5189
 ||||| ||||| ||||| || || || ||||| ||||| ||||| |||||
Sbjct: 5064979 acaaaatTTtattatgtaaatTTtatatgtacattaaatataaaatTTtaaatgTTa
5064920

Query: 5190 tatttagt 5197
 ||| |||
Sbjct: 5064919 tatatagt 5064912

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Minus

Query: 4969 ttcttcagtttacttgattattatTTtactTTgatacatt 5008
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7618452 ttcttcagtttacttgattattatTTtactTTgacacatt 7618413

Score = 63.9 bits (32), Expect = 4e-07
Identities = 47/52 (90%)
Strand = Plus / Plus

Query: 5201 attaattatTTTataacataattgatgtattagttcagttggttagagcatt 5252
 |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 28498972 attatTTtattTTataacgtaattgattcattagtttagttggttagagcatt 28499023

Score = 63.9 bits (32), Expect = 4e-07
Identities = 63/72 (87%), Gaps = 1/72 (1%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacataa
5221
 ||||| ||||| | | || ||| ||||| ||||| ||||| |||||
Sbjct: 32549596 taaatatacattaaaaatTTaa-tattgtatatagtgacattaattTTTTataaccataa
32549654

Query: 5222 ttgatgtattag 5233
 ||||| |||||
Sbjct: 32549655 ttgatttattag 32549666

Score = 63.9 bits (32), Expect = 4e-07
Identities = 56/64 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgTTacaaaatTTtattatctaaatTTgcatgcacaataaatatacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34037420 aaaattaattgTcacaaaatTTtattatgtaaatTTtatatgtgcattaaatatacattaaa
34037479

Query: 5177 aatt 5180
 |||||
Sbjct: 34037480 aatt 34037483

Score = 63.9 bits (32), Expect = 4e-07
Identities = 107/131 (81%), Gaps = 2/131 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgTTacaaaatTTtattatctaaatTTgcatgcacaataaatatacattaga
5176
 |||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 37515525 aaaaataattgTTacaaaatTTtattatgtaaacttatatgtgtattaagtatacattata
37515584

Query: 5177 aatTTtagtgTTtatTTtagtgaaattaattTTTTataacataattgatgtattagttc
5236
 ||||| | || |||| | || || | ||||| ||||| ||||| ||||| |||||

Sbjct: 37515585 aatttta--gtaatatattgacgttaattatTTTTTaaacataattgggtctattagacc
37515642

Query: 5237 agttgggttaga 5247
| |||||
Sbjct: 37515643 atttgggttaga 37515653

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataacattagaaatttttagtgta
5189
|||||
Sbjct: 1277696 acaaaatttattatgttaaatttacatatacattaaatataaaatttttagtgta
1277637

Query: 5190 tat 5192
|||
Sbjct: 1277636 tat 1277634

Score = 62.0 bits (31), Expect = 2e-06
Identities = 31/31 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggcta 1673
|||||
Sbjct: 2260736 aacgccttatcccactaggtggggtcggcta 2260706

Score = 62.0 bits (31), Expect = 2e-06
Identities = 34/35 (97%)
Strand = Plus / Minus

Query: 5296 catataatttttaaattattgtaaaatatattttt 5330
|||||
Sbjct: 3119090 catataatttttaaattattgtaaaatatattttt 3119056

Score = 62.0 bits (31), Expect = 2e-06
Identities = 67/79 (84%)
Strand = Plus / Plus

Query: 5165 atatacattagaaatttttagtgttatatttagtgaaattaattattttataacataattg
5224

Sbjct: 7112473 atatacattaaatatatttagtggttatataacaatatattatttcttttataacataattg
7112532

Query: 5225 atgtattagttcagttggt 5243

Sbjct: 7112533 | ||||| ||||| 7112551
acctattagctcagttggt

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Minus

Query: 5130 acaaaattttattatctaaatttgcacataataacattagaaatttttagtgta
5189

Sbjct: 34828616 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
34828557 acaaaaatttattatgtaaatttacgtgtacattaaataaaattaaaaatttttagtatta

Query: 5190 tat 5192

Sbjct: 34828556 tat 34828554

Score = 60.0 bits (30), Expect = 7e-06
Identities = 36/38 (94%)
Strand = Plus / Plus

Query: 3510 tgtgttattggaaatttaggcttggttatatttgatgct 3547

Sbjct: 2453356 tgtgttttttgaaaatttaggcttgttatatatttggtgct 2453393

Score = 60.0 bits (30), Expect = 7e-06
Identities = 30/30 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggct 1672

Sbjct: 3804761 aacgccttatcccactaggtggggtcgqct 3804732

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Minus

Query: 5297 attaatTTTtaaattaatttgTaaaatatTTTTtgaaaaaaa 5338
 |||||||||||||||| |||| | ||||||||||||
Sbjct: 7805939 attaatTTTtaaattaattcataaaacatatTTTTtgaaaaaaa 7805898

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Minus

Query: 5117 aaaattaattgTtacaaaatttattatctaaatt 5150
 |||||||||||||||| |||| |
Sbjct: 10141123 aaaattaattgTtacaaaatttattatttaaatt 10141090

Score = 58.0 bits (29), Expect = 3e-05
Identities = 44/49 (89%)
Strand = Plus / Minus

Query: 5177 aatttttagtgTtatatttagtgaaattaattattttataacataattga 5225
 |||||||||||||||| || | ||||||||||||||||
Sbjct: 34037384 aatttttagtgTtatataataacaacattaattattttataacataattga 34037336

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggTcggtacatggatca 1682
 |||||||||||||||| ||||||||||||
Sbjct: 36655117 gccttatcccactaggtgaggtcggtacatagatca 36655153

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggTcggtacatggatca 1682
 |||||||| |||||||| ||||||||||||

Sbjct: 37977527 gccttatctcactaggtgaggtcggctacatggatca 37977491

Score = 56.0 bits (28), Expect = 1e-04
Identities = 71/84 (84%), Gaps = 1/84 (1%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTTtagtgTTatTTTtagtgaaattaattTTTTataacataa
5221

||||| | |||| | ||||| ||||| ||||| | | | | ||||| ||||| ||||| |||||
Sbjct: 8346670 taaatacatattaaaaatTTTtagtgTTataataa-taacattaattTTTTataacataa
8346612

Query: 5222 ttgatgtattagttcagttggTTa 5245

|| | |||| | ||||| |||||
Sbjct: 8346611 ttaacttattacctcagttggTTa 8346588

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 5291 ttggatcattaattTTTtaaattaatttGTaaaatatTTTT 5330

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16141897 ttggatcattaattTTTtaaattatttGTgaaacatatTTTT 16141858

Score = 54.0 bits (27), Expect = 4e-04
Identities = 42/47 (89%)
Strand = Plus / Minus

Query: 5290 ttggatcattaattTTTtaaattaatttGTaaaatatTTTTgaaaaa 5336

|||| | ||||| ||||| ||||| | |||| | ||||| ||||| ||||| |||||
Sbjct: 6378629 ttggaccattaattTTTtaaattaaatcataaattatatTTTTgaaaaa 6378583

Score = 54.0 bits (27), Expect = 4e-04
Identities = 39/43 (90%)
Strand = Plus / Minus

Query: 1640 acaaagccttatccactaggtggggTcggctacatggatca 1682

|||| | ||||| ||||| ||||| |||| | ||||| ||||| ||||| |||||
Sbjct: 39807801 acaaaagccttatctcactaggtgaggtTggctacatggatca 39807759

Score = 50.1 bits (25), Expect = 0.007
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 7308 gccaccatcccatgcgagagtccacttttcttggtggaatct 7348
|||||||
Sbjct: 9680862 gccaccatcccatgcaagagtccatttttctcgcggaatct 9680822

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaat 5341
|||||
Sbjct: 11101169 attaataattaaattaattcataaaatatattttataaaaaaaaaat 11101213

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 5750 aaatttgctaaaagatccttaaactttaattgaaaaa 5786
|||||||
Sbjct: 32668949 aaatttgcaaaaagatccttagaatttaattgaaaaa 32668985

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/52 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataat 5168
|||||||
Sbjct: 7112436 aaaattaattgtcataaaatttattatttaaatttacatatacatataaataat 7112487

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/52 (86%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattagttcagttggtagagcatt 5252

|||| ||||||||| ||||||| ||||| | |||||||||
Sbjct: 10808051 attattttattttataatgtaattgattcatttagcttagttggtagagcatt 10808000

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatt 5327
||||||| ||||||||| |||||
Sbjct: 11060967 cattaattttatattaatttgtaaaacatatt 11060998

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttg 5152
|||| ||||| ||||||||| |||||
Sbjct: 15728846 aaaagtaattattacaaaatttattatgtaaatttg 15728881

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 6041 ttttttttatccaaataataaaaa 6064
||||||| |||||||||
Sbjct: 16610163 ttttttttatccaaataataaaaa 16610140

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 1647 ccttatccactaggtggggctcggtacatggatca 1682
||||| ||||||||| || |||||||||
Sbjct: 19842534 ccttattccactaggtgaggttggtacatggatca 19842569

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 2572 taaatttgtaaataatattttttt 2595
 |||||
Sbjct: 20491412 taaatttgtaaataatattttttt 20491435

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 28534168 ctttttttttaaaaaaaaaaaaaaca 28534145

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaa 5339
 ||||| |||||
Sbjct: 32216744 attaatttgtaaaatatattttttaaaaaaaa 32216775

Score = 46.1 bits (23), Expect = 0.10
Identities = 59/71 (83%)
Strand = Plus / Plus

Query: 3605 gctgccacatggtgaactggtatttctaaatccaaaactaacaatagtgaggaatgcatt
3664
 ||||| | ||||| ||||| | ||||| ||||| ||||| || ||||| || |||||
Sbjct: 2453492 gctgcctcctggtggactggcagttctaaatccaaaattaacgattgtgaggaaggtatt
2453551

Query: 3665 aaaaaaaattt 3675
 ||||| |||||
Sbjct: 2453552 gaaaaaatattt 2453562

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 6262 tgctttttttttttgttttgtttt 6284
 |||||
 Sbjct: 5596995 tgctttttttttttgttttgtttt 5596973

Score = 46.1 bits (23), Expect = 0.10
 Identities = 23/23 (100%)
 Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||
 Sbjct: 6860993 ttttttttaaaaaaaaaaaaaaaca 6860971

Score = 46.1 bits (23), Expect = 0.10
 Identities = 32/35 (91%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 |||||
 Sbjct: 8346715 aaaattaattgtcacataatttattatttaaattt 8346681

Score = 46.1 bits (23), Expect = 0.10
 Identities = 29/31 (93%)
 Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 |||||
 Sbjct: 9681652 acaagttgaattgcactaaaatatttaaatt 9681622

Score = 46.1 bits (23), Expect = 0.10
 Identities = 59/71 (83%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
 5221
 |||||
 Sbjct: 11060569 taaatataatataaaaaatttaattattatatataataatattaattggtttataacataa
 11060510

Query: 5222 ttgatgtatta 5232
 || || |||||

Sbjct: 11060509 ttaatttatta 11060499

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 24927340 aacttttttttaaaaaaaaaaaaaa 24927362

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 27307480 ttttttttaaaaaaaaaaaaaaca 27307458

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 3893 aaaaatgatttttttttaaatgtaaaaa 3919
 |||||
Sbjct: 34610550 aaaaatgatttttttttaaatgtaaaaa 34610524

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattat 5143
 |||||
Sbjct: 37912262 aaaattaattgtcacaaaatttattat 37912288

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaat 5322
 |||||
Sbjct: 1157100 attaatttttaaattattttgtaaaat 1157075

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 4785 taataataattaataagtaata 4806
 |||||
Sbjct: 1365914 taataataattaataagtaata 1365935

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 1846290 ctttttttttaaaaaaaaaaaaaa 1846311

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5013 aataatttttaataaattatttt 5034
 |||||
Sbjct: 4022474 aataatttttaataaattatttt 4022453

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 4970564 aacttttttttaaaaaaaaaaaaaa 4970585

Score = 44.1 bits (22), Expect = 0.41

Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaaca 5570
|||||
Sbjct: 5010274 aacttttttttaaaaaaaaaaataaca 5010249

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 1283 catgatattaaattttatttttt 1304
|||||
Sbjct: 7623875 catgatattaaattttatttttt 7623896

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 7637007 ctttttttttaaaaaaaaaaaaaa 7636986

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6263 gcttttttttttgttttgtttt 6284
|||||
Sbjct: 9266190 gcttttttttttgttttgtttt 9266211

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatattttt 5330
|||||
Sbjct: 11950014 attaatttttaaattatttagtaaaatacattttt 11949981

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 12273184 ctttttttttaaaaaaaaaaaaaa 12273163

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 12406931 ctttttttttaaaaaaaaaaaaaa 12406952

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 3887 ttttgtaaaaatgattttttttt 3908
|||||
Sbjct: 24638147 ttttgtaaaaatgattttttttt 24638126

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 1666 gtcggctacatggatcaacttcgccataatgtt 1699
|||||
Sbjct: 28110959 gtcggctacatggatcaaattacaccataatgtt 28110926

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaaaca 5570
|||||

Sbjct: 31805564 aacttttttttttaaaaaaaaaaaca 31805589

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5327 ttttgaaaaaaaaaattataaaa 5348
|||||
Sbjct: 34481911 ttttgaaaaaaaaaattataaaa 34481932

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 6438 tatttttattttatttgattattata 6463
|||||
Sbjct: 36414011 tatttttattttatttgattattata 36413986

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttatta 5142
|||||
Sbjct: 40064110 aaaattaattattacaaaatttatta 40064135

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6206 ttttttttttcaaaaccaagttaag 6230
|||||
Sbjct: 211950 tttttttattcaaaaccaagttaag 211974

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 222524 tttttttttaaaaaaaaaaaaaa 222544

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 286876 tttttttttaaaaaaaaaaaaaa 286856

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 392386 tttttttttaaaaaaaaaaaaaa 392366

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 392371 tttttttttaaaaaaaaaaaaaa 392391

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 1746961 cttttttttaaaaaaaaaaaaaa 1746941

Score = 42.1 bits (21), Expect = 1.6

Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 3443 agagccttgccatagttaatgtatg 3467
||||| |||||||||
Sbjct: 2453305 agagccctgccatagttaatgtatg 2453329

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6204 cattttttttttcaaaaccaa 6224
|||||||
Sbjct: 3105958 cattttttttttcaaaaccaa 3105938

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
||||||| ||| |||||||
Sbjct: 3810298 gccttatcccactaggtgaagtccgctacatgaatca 3810334

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
||||||| ||| |||||||
Sbjct: 4559960 gccttatcccactaggtcagttcgactacatggatca 4559996

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaac 5569
|||||||
Sbjct: 4849781 ttttttttaaaaaaaaaaac 4849761

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattta 6511
|||||||
Sbjct: 5001765 aaattaaaaaatatatattta 5001785

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5297 attaatTTTTaaattaatttgtaaaa 5321
|||||||
Sbjct: 6898861 attaatTTTTaaattaatttttaaaa 6898837

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6285 aaaattgTTTgtatttttatt 6305
|||||||
Sbjct: 7411957 aaaattgTTTgtatttttatt 7411977

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattta 6511
|||||||
Sbjct: 7708305 aaattaaaaaatatatattta 7708325

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 7397 acaaatatTTTtattataaaa 7417
|||||||

Sbjct: 7934760 acaaataatatttttattataaaa 7934740

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4878 agtttttcttttatttttatt 4898
|||||
Sbjct: 8145551 agtttttcttttatttttatt 8145531

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 10219140 ttttttttaaaaaaaaaaaaaa 10219160

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 12891172 ttttttttaaaaaaaaaaaaaa 12891152

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5316 gtaaaatatatttttgaaaaaaaaa 5340
|||||
Sbjct: 13645970 gtaaaatatatttttgaaaaaaaaa 13645946

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 14437138 actttttttttaaaaaaaaaa 14437118

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 17946293 tttttttttaaaaaaaaaa 17946273

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 19713813 tttttttttaaaaaaaaaa 19713833

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 22089717 tttttttttaaaaaaaaaa 22089737

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttt 6284
 |||||
Sbjct: 24030369 cttttttttttgttttgtttt 24030389

Score = 42.1 bits (21), Expect = 1.6

Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5542 ttgaacttttttttaaaaaaaaaa 5566
 |||| ||||||||||||||||
Sbjct: 27918099 ttgatcttttttttaaaaaaaaaa 27918123

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 1494 atgtagaaagttatcactgta 1514
 ||||||||||||||||||
Sbjct: 29273592 atgtagaaagttatcactgta 29273612

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 29697160 cttttttttaaaaaaaaaa 29697180

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 31837378 cttttttttaaaaaaaaaa 31837358

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 33266925 tttttttttaaaaaaaaaa 33266905

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 33471954 tttttttttaaaaaaaaaaaaaa 33471974

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 33688647 tttttttttaaaaaaaaaaaaaa 33688667

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 34345697 cttttttttttgttttgtttt 34345717

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 34359193 tttttttttaaaaaaaaaaaaaa 34359213

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5327 ttttgaaaaaaaaattataaaaaa 5351
 |||||||||||||| |||||||

Sbjct: 35468177 ttttgaaaaaaaaatttttaaaaaaa 35468201

Score = 42.1 bits (21), Expect = 1.6
Identities = 28/29 (96%), Gaps = 1/29 (3%)
Strand = Plus / Plus

Query: 6485 taattgaaattaaaaaata-tatatattaa 6512
|||||
Sbjct: 36308735 taattgaaattaaaaaatattatatattaa 36308763

Score = 42.1 bits (21), Expect = 1.6
Identities = 36/41 (87%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaa 5337
|||||
Sbjct: 37562690 attaatttttaattttatgtgtaaaatatatttttttaaaaaaa 37562730

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 39285306 ctttttttttaaaaaaaaaaaaaa 39285326

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6438 tattttttattttatttgatta 6458
|||||
Sbjct: 39610815 tattttttattttatttgatta 39610795

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||||
Sbjct: 195068 tttttttttaaaaaaaaaaaaaa 195087

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6055 ataataaaaaaaaaattaattatatt 6078
 |||||||||||||||||||| |||||
Sbjct: 352589 ataataaaaaaaaaattaagtattt 352566

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 430884 tttttttttaaaaaaaaaaaaaa 430865

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 455663 tttttttttaaaaaaaaaaaaaa 455644

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4881 ttttcttttatttttatttt 4900
 ||||||||||||||||||||
Sbjct: 742705 ttttcttttatttttatttt 742724

Score = 40.1 bits (20), Expect = 6.4

Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5318 aaaatatatTTTTGAAAAAAAAAT 5341
 ||||| |||||||||
Sbjct: 1129021 aaaatatagTTTTGAAAAAAAAAT 1129044

Score = 40.1 bits (20), Expect = 6.4
Identities = 77/96 (80%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacataga
5176
 ||||| ||| ||||||| ||| ||| || | ||| | | ||||||| ||| |
Sbjct: 1157281 aaaattaattattataaaatttactatataaaacttatatgtatattaaatatattaaa
1157222

Query: 5177 aatttttagtggttatatttagtgaaattaattatttt 5212
 | |||| | |||| | |||| | |||||||
Sbjct: 1157221 atttttaatatatgtatagtggttattaattatttt 1157186

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5316 gtaaaatatatTTTTGAAAAAAAA 5339
 |||| | ||||||| |||||||
Sbjct: 1277573 gtaaatatatatTTTTGAAAAAAAA 1277550

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaa 5566
 ||||||| |||||||
Sbjct: 1456215 cttttttttaaaaaaaaaa 1456196

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 1565963 ttttttttaaaaaaaaaaaaaa 1565982

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5309 ttaatttgtaaaatatatttttgaaaaaaaaa 5340
 ||||| ||| | |||||
Sbjct: 1600854 ttaattggtaacacatatatttttgaaaaaaaaa 1600885

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 1728932 ttttttttaaaaaaaaaaaaaa 1728913

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 1830784 ttttttttaaaaaaaaaaaaaa 1830765

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 1831127 ttttttttaaaaaaaaaaaaaa 1831146

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattt 6510
|||||||
Sbjct: 1897482 aaattaaaaaatatatattt 1897501

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 2404378 ttttttttaaaaaaaaaaaaaa 2404359

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 3440548 ttttttttaaaaaaaaaaaaaa 3440567

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5297 attaatTTTaaattaatttgtaaaatatattt 5328
||||||| ||||| |||||
Sbjct: 3465527 attaatTTTaaattaattaataaaatatattt 3465558

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5333 aaaaaaaattataaaaaaat 5352
|||||||
Sbjct: 3623050 aaaaaaaattataaaaaaat 3623031

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 1845 gtctttctctctacatgcccaaaccacct 1872
 ||||| |||||
Sbjct: 3764642 gtctttctccatacatgcccaaaccacct 3764669

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 4141855 tttttttttaaaaaaaaaaaaa 4141874

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaa 5566
 |||||
Sbjct: 4694087 cttttttttaaaaaaaaaaaaa 4694068

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 2135 tttctccatttcatccatcctgcttgaa 2162
 ||||| ||||| |||||
Sbjct: 4750242 tttcttcatccaccctgcttgaa 4750269

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6060 aaaaaaaaaattaattattta 6079

|||||
Sbjct: 5699317 aaaaaaaattaattattta 5699298

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2581 aaataatatTTTTTTTcttt 2600
|||||
Sbjct: 6287734 aaataatatTTTTTTTcttt 6287715

Score = 40.1 bits (20), Expect = 6.4
Identities = 44/52 (84%)
Strand = Plus / Minus

Query: 5130 acaaaatTTattatctaaatTgcTgcacaataaatatacattagaaatTT 5181
||||| || ||||| || | ||||| |||||
Sbjct: 6378788 acaaaatTTatcatgtaaatTTacatatatatattaaatataaattagaaatTT 6378737

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 6611271 ttttttttaaaaaaaaaaaaaa 6611290

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6480 caacttaattgaaattaaaa 6499
|||||
Sbjct: 7012501 caacttaattgaaattaaaa 7012520

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 7846172 tttttttttaaaaaaaaaaaaaa 7846191

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 7963383 tttttttttaaaaaaaacaaaaca 7963360

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6291 gtttgtatttttattttttttgtt 6314
 |||| |||||
Sbjct: 8032346 gtttttatttttattttttttgtt 8032369

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6535 aatatttaaattacaaaata 6554
 |||||
Sbjct: 9094536 aatatttaaattacaaaata 9094555

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6535 aatatttaaattacaaaata 6554
 |||||
Sbjct: 9095180 aatatttaaattacaaaata 9095199

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 9616367 ttttttttaaaaaaaaaaaaaa 9616348

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6206 ttttttttttcaaaaccaag 6225
|||||||
Sbjct: 10020620 ttttttttttcaaaaccaag 10020639

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5311 aatttgtaaaatatatttttgaaaaaaa 5338
||||| |||||||
Sbjct: 11618588 aatttataaaatatatttttgaacaaaa 11618615

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 12203155 ttttttttaaaaaaaaaaaaaa 12203136

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5565
|||||||
Sbjct: 12406838 acttttttttaaaaaaaaaaaaaa 12406857

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 13335589 ttttttttaaaaaaaaaaaaaa 13335608

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||||| |||||||||||||||
Sbjct: 14434040 ttttttttaaaaaaaaaaaaaaaca 14434017

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 15415399 ttttttttaaaaaaaaaaaaaa 15415380

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 15689035 ctttttttttaaaaaaaaaaaaaa 15689016

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568

Query: 5742 aaaacatcaaatttgctaaa 5761
 |||||||
Sbjct: 20549028 aaaacatcaaatttgctaaa 20549009

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6605 aacaaaaattttaaaataca 6624
 |||||||
Sbjct: 22379076 aacaaaaattttaaaataca 22379057

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5536 ttgttattgaactttttttt 5555
 |||||||
Sbjct: 23557645 ttgttattgaactttttttt 23557664

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5536 ttgttattgaactttttttt 5555
 |||||||
Sbjct: 23588198 ttgttattgaactttttttt 23588217

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4880 tttttcttttatttttattt 4899
 |||||||
Sbjct: 24012438 tttttcttttatttttattt 24012419

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6042 tttttttatccaaataataa 6061
 ||||||||||||||||
Sbjct: 25884907 tttttttatccaaataataa 25884888

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6260 attgcttttttttttgtttt 6279
 ||||||||||||||||
Sbjct: 26840202 attgcttttttttttgtttt 26840183

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6439 atttttattttatttgattattat 6462
 |||||||||||||||| ||||||||
Sbjct: 27239761 atttttattttatttgattattat 27239738

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaattataaaaaaat 5352
 ||||||||||||||||
Sbjct: 32307790 aaaaaaaattataaaaaaat 32307809

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatTTTT 5330
 |||||||||||||||| || || || ||||| |||||
Sbjct: 32549728 tcattaatttttaaagtatttcgtaaaacatatTTTT 32549763

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5025 aaattattttatgaataaataaaa 5048
 |||||
Sbjct: 32971336 aaattattttattaataaataaaa 32971313

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaattataaaaa 5349
 |||| |
Sbjct: 33346355 aaaacatatttttgaaaaaaaaaatttaaaaa 33346324

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 33688643 aacttttttttttaaaaaaaaaaaaaa 33688666

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6492 aattaaaaaatatatattta 6511
 |||||
Sbjct: 33929206 aattaaaaaatatatattta 33929225

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5552 ttttaaaaaaaaaaaaaaaca 5571

|||||
Sbjct: 34262401 ttttaaaaaaaaaaaaaacaa 34262382

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 35432089 ttttttttaaaaaaaaaaaaaa 35432070

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6489 tgaaattaaaaaatatatat 6508
|||||
Sbjct: 35651397 tgaaattaaaaaatatatat 35651378

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 36233529 ttttttttaaaaaaaaaaaaaa 36233510

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 4437 gttcaattttttttttgtgaggc 4460
|||||
Sbjct: 36360005 gttcaattttttttttgttaggc 36359982

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 2005 tttattctcatgttggctcttgaccgccaacattc 2040
 ||||| ||||| || || |||||
Sbjct: 36533200 tttattctcctgttgactttttaccgccaacattc 36533165

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaaaca 5570
 ||||| |||||
Sbjct: 36806432 ctttttttttaaaaaaaaaaaaaaaca 36806409

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5679 tgtgttcacttaacaagagg 5698
 |||||
Sbjct: 37408783 tgtgttcacttaacaagagg 37408802

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 37566566 ttttttttttaaaaaaaaaaaaaa 37566585

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6297 atttttatTTTTTTTgttat 6316
 |||||
Sbjct: 37994599 atttttatTTTTTTTgttat 37994618

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6041 ttttttttatccaaataataaaaa 6064
|||||||
Sbjct: 38057452 ttttttttatccaaaaataaaaa 38057475

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5564
|||||||
Sbjct: 39421643 aacttttttttaaaaaaaaaa 39421662

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6287 aattgtttgatTTTTTTTTTT 6310
|||||||
Sbjct: 39462472 aattgttgtctTTTTTTTTTT 39462449

>[gb|CM000844.1](#)| Glycine max chromosome 11, whole genome shotgun sequence
Length = 39172790

Score = 1608 bits (811), Expect = 0.0
Identities = 814/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 27448157 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
27448098

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 27448097 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
27448038

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
1822
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Sbjct: 27448037 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
27447978

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|| |||||
Sbjct: 27447977 ctgctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
27447918

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
|||||
Sbjct: 27447917 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
27447858

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 27447857 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27447798

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 27447797 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
27447738

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 27447737 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
27447678

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182
|||||
Sbjct: 27447677 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
27447618

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242
|||||
Sbjct: 27447617 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
27447558

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 27447557 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
27447498

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 27447497 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
27447438

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 27447437 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
27447378

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 27447377 tctgcaaaaagcatgcatctcggcgctatctcttg 27447343

Score = 1608 bits (811), Expect = 0.0
Identities = 814/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 33321137 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
33321196

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 33321197 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
33321256

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 33321257 atagtctttttgggtcttcctctacctcgaattgtttgtcttctctccatctgggtctact
33321316

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||

Sbjct: 33321317 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctat
33321376

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 33321377 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
33321436

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 33321437 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
33321496

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcgctacaaaatcgccggt
2062

|||||
Sbjct: 33321497 actttattctcatggttggtctcttgaccgccaacattctgttcgctacaaaatcgccggt
33321556

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 33321557 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
33321616

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 33321617 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
33321676

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 33321677 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
33321736

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 33321737 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
33321796

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 33321797 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
33321856

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 33321857 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
33321916

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 33321917 tctgcaaaaagcatgcatctcggcgctatctcttg 33321951

Score = 1600 bits (807), Expect = 0.0
Identities = 813/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 18703739 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
18703798

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 18703799 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
18703858

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 18703859 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
18703918

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

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Sbjct: 18703919 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
18703978

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 18703979 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
18704038

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 18704039 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
18704098

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 18704099 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
18704158

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 18704159 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
18704218

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 18704219 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
18704278

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 18704279 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtatgacttgaggg
18704338

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 18704339 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
18704398

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18704399 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
18704458

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18704459 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18704518

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 18704519 tctgcaaaaagcatgcatctcggcgctatctcttg 18704553

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 7934735 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
7934794

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 7934795 tcaagtaccatacttctatccaaaccattaatttcgaaatcctttttgataacctctctt
7934854

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 7934855 atagtctttttgggtcttcctctacctcgaattgtttgtcttctctccatttgggtctact
7934914

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 7934915 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
7934974

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttcta
1942
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Sbjct: 7934975 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttcta
7935034

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 7935035 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
7935094

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttcggtacaaaatcgccgggt
2062
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Sbjct: 7935095 actttattctcatgttggctcttgaccgccaacattctgttctgtacaaaatcgccggt
 7935154

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 7935155 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 7935214

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

|||||
 Sbjct: 7935215 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 7935274

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 7935275 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtatgacttgaggg
 7935334

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 7935335 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 7935394

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 7935395 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 7935454

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 7935455 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 7935514

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 7935515 tctgcaaaaagcatgcatctcggcgctatctcttg 7935549

Score = 1560 bits (787), Expect = 0.0
 Identities = 808/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 1427298 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1427357

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 1427358 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1427417

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 1427418 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1427477

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 1427478 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1427537

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttcta
1942

|||||
Sbjct: 1427538 tccaccatcttctctacaataggcgctactccaaccctctctttaatagtcttcttcta
1427597

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 1427598 attttatcctgtcgagttttaccacacatccaccgcaacatcctcatctccgccacacct
1427657

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 1427658 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
1427717

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 1427718 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
1427777

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 1427778 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
1427837

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 1427838 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
1427897

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 1427898 ataatatgatctcctattttccactctgagttagaaaccctccttcttttggtgaactta
1427957

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

|||||
Sbjct: 1427958 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
1428017

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 1428018 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
1428077

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 1428078 tctgcaaaaagcatgcatctcggcgactatctcttg 1428112

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 17139250 aacgccttatccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
17139309

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 17139310 tcaagtaccatactttctatccaaatcattaagttcgagatcctttttgataacctctctt
17139369

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 17139370 atagtctttttggatcttcctctgcctcgaattgtttgccttctctccatctgggtctact
17139429

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 17139430 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
17139489

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 17139490 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
17139549

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 17139550 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
17139609

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 17139610 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
17139669

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 17139670 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
17139729

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 17139730 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
17139789

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 17139790 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 17139849

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 17139850 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 17139909

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 17139910 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 17139969

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 17139970 ctccaagtttccaacctcttattcaactcctccctcgactctccaaggaggactatgtca
 17140029

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 17140030 tctgcaaaaagcatgcatctcggcgctatctcttg 17140064

Score = 1560 bits (787), Expect = 0.0
 Identities = 805/811 (99%)
 Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatcaa
 1706

|||||
 Sbjct: 38585964 ccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatcaa
 38585905

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
 1766

|||||
 Sbjct: 38585904 gtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctcttatag
 38585845

Query: 1767 tctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctactctcc
 1826

|||||
 Sbjct: 38585844 tctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctactctcc
 38585785

Query: 1827 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcca
1886

|||||

Sbjct: 38585784 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcca
38585725

Query: 1887 ccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttctaattt
1946

|||||

Sbjct: 38585724 ccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttctaattt
38585665

Query: 1947 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctactt
2006

|||||

Sbjct: 38585664 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctactt
38585605

Query: 2007 tattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggtctta
2066

|||||

Sbjct: 38585604 tattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgctcgggtctta
38585545

Query: 2067 ccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataacaccc
2126

|||||

Sbjct: 38585544 ccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataacaccc
38585485

Query: 2127 ccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
2186

|||||

Sbjct: 38585484 ccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
38585425

Query: 2187 tttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgagggataa
2246

|||||

Sbjct: 38585424 tttcccatcatccttatattacagacccaagatatttaaaccgtgtgacttgagggataa
38585365

Query: 2247 tatggtctcctatttttcacctctgagttagaaaccctccttcttttggtgaacttacatt
2306

|||||

Sbjct: 38585364 tatggtctcctatttttcacctctgagttagaaaccctccttcttttggtgaacttacatt
38585305

Query: 2307 ccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctcc
 2366

|||||
 Sbjct: 38585304 ccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctcc
 38585245

Query: 2367 aagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctg
 2426

|||||
 Sbjct: 38585244 aagtttccaacctctcattcaactcctccctcgactctctaaggaggactatgtcatctg
 38585185

Query: 2427 caaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 38585184 caaaaagcatgcatctcggcgctatctcttg 38585154

Score = 1552 bits (783), Expect = 0.0
 Identities = 807/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 11542650 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
 11542591

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 11542590 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttgataacctctctt
 11542531

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 11542530 atagtctttttgggtcttcctctgcctcgaattgtttgttttctctccatctgggtctact
 11542471

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
 1882

|||||
 Sbjct: 11542470 ctcttactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
 11542411

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

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Sbjct: 11542410 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
11542351

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 11542350 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccggttacacct
11542291

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 11542290 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
11542231

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 11542230 cttatcgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
11542171

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 11542170 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
11542111

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 11542110 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
11542051

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 11542050 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
11541991

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 11541990 tattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
11541931

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 11541930 ctccaagttttccaacctctcattcaactcctccctcgactctctaaggaggactatgtca
11541871

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 11541870 tctgcaaaaagcatgcatctcgcgctatctcttg 11541836

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 2748968 aacgccttatcccactaggtggggctcggctacatggatcaacttccgtcataatgttcta
2748909

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 2748908 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
2748849

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 2748848 atagtctttttgggtcttcctctgcctcgaatagtttgtcttctctccatctgggtctact
2748789

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||||
Sbjct: 2748788 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
2748729

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttcta
1942
|||||||
Sbjct: 2748728 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttcta
2748669

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 2748668 attttatcctgtcgagtcttaccacacattcaccgcaacatcctcatctccgctacacct
2748609

Query: 2003 actttattctcatggttggtcttgaccgcccacattctgttcgtaaaaaatcgccggt
2062

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Sbjct: 2748608 actttattctcatggttggtcttgaccgcccacattctgttcgtaaaaaatcgccggt
2748549

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 2748548 cttaccgtagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2748489

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 2748488 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2748429

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 2748428 tcaatttcccatcatcctgtattacagaccaagatatttaaaccatgtgacttgaggg
2748369

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 2748368 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2748309

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 2748308 cattccatatactccgatttgcttctacttaggcgaaagccatgtgtttctagagctcgt
2748249

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 2748248 ctcaaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2748189

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 2748188 tctgcaaaaaacatgcatctcggcgctatctcttg 2748154

Score = 1509 bits (761), Expect = 0.0
Identities = 782/789 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 35753442 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
35753501

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 35753502 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
35753561

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 35753562 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
35753621

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

|||||
Sbjct: 35753622 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
35753681

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 35753682 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
35753741

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 35753742 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
35753801

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtataaaaatcgccggt
2062

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Sbjct: 35753802 actttattctcatgttgactcttgaccgccaacattctgttccgtataaaaatcgccggt
35753861

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 35753862 cgtaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 35753921

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182

|||||
 Sbjct: 35753922 acccccgatgcttttctccatttcatccatcatgcttgaatgcgatgattcacatcccct
 35753981

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 35753982 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 35754041

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 35754042 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 35754101

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 35754102 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 35754161

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 35754162 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 35754221

Query: 2423 tctgcaaaa 2431
 |||||

Sbjct: 35754222 tctgcaaaa 35754230

Score = 1507 bits (760), Expect = 0.0
 Identities = 803/816 (98%), Gaps = 1/816 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 16834126 aacgccttatcccactaggtggggctcgactacatggatcaacttccgtcataatgttcta
 16834185

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 16834186 tcaagtaccatacttcgatccaaaccattaatttcgagatcctttttgataacctctctt
16834245

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 16834246 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
16834305

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 16834306 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
16834365

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 16834366 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
16834425

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 16834426 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
16834485

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 16834486 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
16834545

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 16834546 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
16834605

Query: 2123 acccccgatgct-tttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
2181

|||||
Sbjct: 16834606 acccccgatgataaaaactccatttcatccatcctgcttgaatgcgatgattcacatcccc
16834665

Query: 2182 ttcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgagg
2241

|||||
Sbjct: 16834666 ttcaatttcccatcatcctgtattacagaccgagatatttaaaccgtatgacttgagg
16834725

Query: 2242 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
2301

|||||
Sbjct: 16834726 gataatatggtctcctattttcacctctgagttagaaatcctccttcttttggtgaactt
16834785

Query: 2302 acattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcg
2361

|||||
Sbjct: 16834786 acattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcg
16834845

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

|||||
Sbjct: 16834846 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
16834905

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 16834906 atctgcaaaaagcctgcatctcggcgctatctcttg 16834941

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 32238169 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
32238110

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 32238109 tcaagtatcatacttctatccaaatcattaagttcgagatccttcttgatgacctctctt
32238050

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 32238049 atagtctttttgggtcttctctgacctgaattgtttgcttctctccatctggtctact
32237990

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 32237989 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
32237930

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

Sbjct: 32237929 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
32237870

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 32237869 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
32237810

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

Sbjct: 32237809 actttagtctcatgttggtctcttgaccgccaacattctgtaccgtacaaaatcgccagt
32237750

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 32237749 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
32237690

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

Sbjct: 32237689 acccccaatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
32237630

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

Sbjct: 32237629 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
32237570

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 32237569 ataatatgggtctcctatttttcacctctgagttagataccctcctactttttagaactta
32237510

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 32237509 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
32237450

Query: 2363 ctccaagtttccaacctctcattcaactcctcctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 32237449 ctccaagtttccaacctctcattcaactcctcctcgactctccaaggaggactatgtca
32237390

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 32237389 tctgcaaaaagcatgcatctcggcgctatctcttg 32237355

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 22877580 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
22877521

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 22877520 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
22877461

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 22877460 atagtatttttgggtcttctctgcctcgaattgtttgccttctctccatctggtctact
22877401

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 22877400 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
22877341

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 22877340 tccaccatcttctttacaataggcgctactccaaccatctctctaatagtccgtttcta
22877281

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 22877280 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
22877221

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 22877220 acttttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
22877161

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 22877160 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
22877101

Query: 2123 accccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatcccct
2182

|||||
Sbjct: 22877100 acccctgatgcttttctccatttcacatcctgcttgaatgcatgattcacatcccct
22877041

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 22877040 tcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
22876981

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 22876980 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
22876921

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 22876920 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
22876861

[illegible]

Sbjct: 30384624 attttatcctgtcgagttcttaccacacatccaccgcaacatcctcatctccgctacacct
30384565

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 30384564 actttagtctcatggttggtctcttgactgccaacattctgttccgtacaaaatcgccagt
30384505

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 30384504 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
30384445

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 30384444 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
30384385

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

||||| ||||||||||||||||||| ||||||||||||||||||| ||
Sbjct: 30384384 tcaatttctccatcatcctgtattatagacccaagatatttaaaccgtgtgatttgaggg
30384325

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacta
2302

||||| ||||||||||||||||||| ||||||| |||||||||||||||
Sbjct: 30384324 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaaacta
30384265

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 30384264 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
30384205

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 30384204 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
30384145

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

||||| ||||||||||||||||||| ||
Sbjct: 30384144 tctgcaaaaagcatgcatctcggcgctatctcttg 30384110

Score = 1465 bits (739), Expect = 0.0
Identities = 796/815 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 30957225 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
30957284

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 30957285 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
30957344

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 30957345 atagtctttttgggtcttcctcagcctcgaattgtttgccttctctccatctgggtctact
30957404

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 30957405 atcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
30957464

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
1942
|||||
Sbjct: 30957465 tccaccatcttctctacaataggcgctactccaaccctctctctaataatctccgtttcta
30957524

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 30957525 attttatcctgtcgagtcttaccacacatccaccacaacatcctcatctccgctacacct
30957584

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 30957585 acttttagtctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgat
30957644

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 30957645 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
30957704

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 30957705 acccccaatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
30957764

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 30957765 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
30957824

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 30957825 ataatatggtctcctattttcacctctgagttagataaccctcctacttttgttgaactta
30957884

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 30957885 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
30957944

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 30957945 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
30958004

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 30958005 tctgcaaaaagcatgcatctcgacactatctcttg 30958039

Score = 1459 bits (736), Expect = 0.0
Identities = 793/812 (97%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
1705

|||||

Query: 2126 cccgatgcttttctccatttcattccatcctgcttgaatgcgatgattcacatccccttca
2185

Sbjct: 16661416 cccgatgcttttctccatttcattcatcctgcttgaatgcatgattcacatcccccttca
 16661475

Query: 2186 atttccccatcatcctgtattacagaccaagatatatttaaaccgtgtgacttgaggata
 2245

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 Sbjct: 16661476 atttctccatcatcctgtattacagaccaagatatatttaaaccgtgtgacttgaggata
 16661535

Query: 2246 atatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaacttacat
 2305

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 Sbjct: 16661536 atatggtctcctattttctcctctaagttagataccctcctacttttgttgaacttacat
 16661595

Query: 2306 tccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
 2365

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 Sbjct: 16661596 tccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
 16661655

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
 2425

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 Sbjct: 16661656 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
 16661715

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 16661716 gcaaaaagcatgcatctcggcgctatctcttg 16661747

Score = 1404 bits (708), Expect = 0.0
 Identities = 750/764 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 6643738 aacgccttatcccactaggtgggggtcgactacatgaatcaacttccgccataatgttcta
 6643797

Query: 1703 tcaagtaccatacttctatccaaaccatttaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 6643798 tcaagtaccatacttctatccaaatcatttaagtttgagatcctttttgataacctctctt
 6643857

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 6643858 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
6643917

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 6643918 ctctcactacagagtctaccggtcttctctctacatgctcaaaccacctaagtctattt
6643977

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 6643978 tccaccatcttctctacaataggcgctactccaaccctctctctaataaacttcgtttcta
6644037

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002

|||||
Sbjct: 6644038 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
6644097

Query: 2003 actttattctcatgttggtcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

| |||||
Sbjct: 6644098 actttattctcatgttggtcttgaccgccccaacattctgttcggtacaaaatcgccggt
6644157

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 6644158 cttaccgcgtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
6644217

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 6644218 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
6644277

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 6644278 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
6644337

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 6644338 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
6644397

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 6644398 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
6644457

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctcc 2406

|||||
Sbjct: 6644458 ctccaagtttccaacctctcattcaactcctccctcgactctcc 6644501

Score = 1362 bits (687), Expect = 0.0
Identities = 696/699 (99%)
Strand = Plus / Minus

Query: 1759 tcttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtc
1818

|||||
Sbjct: 18846495 tcttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtc
18846436

Query: 1819 tactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtct
1878

|||||
Sbjct: 18846435 tactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtct
18846376

Query: 1879 attttccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtt
1938

|||||
Sbjct: 18846375 attttccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtt
18846316

Query: 1939 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
1998

|||||
Sbjct: 18846315 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
18846256

Query: 1999 acctactttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgc
2058

|||||

Sbjct: 18846255 acctactttattctcatgttggtctcttgaccgcccacattctgttcggtacaaaaatcac
 18846196

Query: 2059 cgggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcaca
 2118

|||||
 Sbjct: 18846195 cgggtcttaccgcagtcgataaaaactttcccttttagcttgaccggtacctttgcatcaca
 18846136

Query: 2119 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatc
 2178

|||||
 Sbjct: 18846135 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatc
 18846076

Query: 2179 cccttcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttg
 2238

|||||
 Sbjct: 18846075 cccttcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttg
 18846016

Query: 2239 agggataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaa
 2298

|||||
 Sbjct: 18846015 agggataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaa
 18845956

Query: 2299 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
 2358

|||||
 Sbjct: 18845955 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
 18845896

Query: 2359 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
 2418

|||||
 Sbjct: 18845895 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
 18845836

Query: 2419 gtcattctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 18845835 gtcattctgcaaaaagcatgcatctcggcgctatctcttg 18845797

Score = 1320 bits (666), Expect = 0.0
 Identities = 711/726 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 7224118 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
7224059

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 7224058 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
7223999

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 7223998 atagtctttttgggtcttcctctgcctcgaattgtttgccttctcttcatctgggtctact
7223939

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 7223938 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
7223879

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctggtttcta
1942

|||||
Sbjct: 7223878 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctggtttcta
7223819

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 7223818 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
7223759

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 7223758 actttagtctcatgttgggtcttgatcgccaacattctgttcggtacaaaatcgccggt
7223699

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 7223698 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
7223639

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 7223638 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
7223579

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 7223578 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
7223519

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 7223518 ataatatggcctcctattttcacctctaagttagataccctcctacttttggtgaactta
7223459

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 7223458 cattccatatactccgacttgcttctgcttaggcgaaagccatgtggttctagagctcgt
7223399

Query: 2363 ctccaa 2368

|||||
Sbjct: 7223398 ctccaa 7223393

Score = 1275 bits (643), Expect = 0.0
Identities = 688/703 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 30704714 aacgccttatccactaggtggggctcggctacatggatcaacttccgctcataatgttcta
30704655

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 30704654 tcaagtactatacttctattcaaatacattaagttcgagatccttcttgataacctctctt
30704595

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 30704594 atagtctttttgggtcttctctgctcgaattgtttgcttctctccatctggtctact
30704535

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 30704534 ctctcactacagagtctaccggtcttctctctacatgcccaaaccatctaagtctattt
30704475

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 30704474 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtccgtttcta
30704415

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 30704414 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
30704355

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 30704354 actttagtctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
30704295

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 30704294 cttaccacagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
30704235

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 30704234 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
30704175

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 30704174 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
30704115

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 30704114 ataatatgggtctcctatttttcacctctgagttagataccctcctacttttgttgaactta
30704055

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccat 2345
|||||
Sbjct: 30704054 cattccatataactccgatttgcttctgcttaggcgaaagccat 30704012

Score = 1178 bits (594), Expect = 0.0
Identities = 612/618 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 3122227 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
31222168

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 31222167 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
31222108

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 31222107 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
31222048

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 31222047 ctctcactacagagtctaccggttttctctctacatgcccaaaccacctaagtctattt
31221988

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 31221987 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
31221928

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 31221927 attttatcctgtcagagtcttaccacacaaccaccgcaacatcctcatctccgctacaccg
31221868

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 31221867 actttattctcatgttggctcttgaccgcccagcattctgttccgtacaaaatcgccggt
31221808

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 31221807 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
31221748

Query: 2123 acccccgatgcttttctccatttcattcatcctgcttgaatgcgatgattcacatcccct
2182
|||||
Sbjct: 31221747 acccccgatgcttttctccatttcattcatcctgcttgaatgcgatgattcacatcccct
31221688

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242
|||||
Sbjct: 31221687 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
31221628

Query: 2243 ataatatggtctcctatt 2260
|||||
Sbjct: 31221627 ataatatggtctcctatt 31221610

Score = 1136 bits (573), Expect = 0.0
Identities = 597/605 (98%)
Strand = Plus / Minus

Query: 1853 tctacatgcccacaaaccacctaagctctatttccaccatcttctctacaataggcgctact
1912
|||||
Sbjct: 21755563 tctacatgcccacaaaccacctaagctctatttccaccatcttctctacaataggcgctact
21755504

Query: 1913 ccaaccctctctctaataagcttcggtttctaattttatcctgtcgagtcttaccacacatc
1972
|||||
Sbjct: 21755503 ccaaccctctctctaataagcttcggtttctaattttatcgggtcgagtcttaccacacatc
21755444

Query: 1973 caccgcaacatcctcatctccgctacacctactttattctcatgttggctcttgaccgcc
2032

Sbjct: 21755443 |||||
 21755384 caccgcaacatcctcatctccgctacacctaacttttagtctcatgttggctcttgaccacc

Query: 2033 caacattctgttccgtacaaaatcgccggtcttaccgcagtcgataaaaactttcccttt
 2092

Sbjct: 21755383 |||||
 21755324 caacattatgttccgtacaaaatcgccggtcttaccgcagtcgataaaaactttcccttt

Query: 2093 agcttgatcggtacctttgcatcacataacacccccgatgcttttctccatttcatccat
 2152

Sbjct: 21755323 |||||
 21755264 agcttgatcggtacctttgcatcacataacacccccgatgcttttctccatttcatccat

Query: 2153 cctgcttgaatgcgatgattcacatccccttcaatttcccatcatcctgtattacagac
 2212

Sbjct: 21755263 |||||
 21755204 cctgcttgaatgcgatgattcacatccccttcaatttctccatcatcctgtattacagac

Query: 2213 ccaagatatttaaaccgtgtgacttgagggataaatatggtctcctattttcacctctgag
 2272

Sbjct: 21755203 |||||
 21755144 ccaagatatttaaaccgtgtgacttgagggataaatatggtctcctattttcacctctgag

Query: 2273 ttagaaaccctccttcttttgttgaacttacattccatataactccgatttgcttctgctt
 2332

Sbjct: 21755143 |||||
 21755084 ttagataccctcctacttttgttgaacttacattccatataactccgatttgcttctgctt

Query: 2333 aggcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctcattcaactcc
 2392

Sbjct: 21755083 |||||
 21755024 aggcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctcattcaactcc

Query: 2393 tccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatc
 2452

Sbjct: 21755023 |||||
 21754964 tccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatc

Query: 2453 tcttg 2457

Sbjct: 21754963 |||||
 tcttg 21754959

Score = 1130 bits (570), Expect = 0.0
Identities = 612/626 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 26628066 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
26628125

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 26628126 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
26628185

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 26628186 atagtctttttgggtcttctctgcctcgaattgtttgccttttctccatctgggtctact
26628245

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 26628246 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
26628305

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 26628306 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
26628365

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 26628366 attttatcctgtcgagtcttaccacacatccaccgcaatcctcatctccgctacacct
26628425

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 26628426 acttttagtctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
26628485

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 2122
 |||||
 Sbjct: 26628486 cttaccgcagtcgataaaaactttccctttagcttgatcggtatctttgcatcacataac
 26628545

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182
 |||||
 Sbjct: 26628546 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 26628605

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242
 |||||
 Sbjct: 26628606 tcaatttctccatcatcctgtattacggaccaagatataatttaccgtgtgacttgaggg
 26628665

Query: 2243 ataatatgggtctcctattttcacctc 2268
 |||||
 Sbjct: 26628666 ataatatgggtctcctattttcacctc 26628691

Score = 1094 bits (552), Expect = 0.0
 Identities = 585/596 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 32674736 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 32674795

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||
 Sbjct: 32674796 tcaagtaccatacttctatccaaatcattaagtttgagatccttcttgataacctctctt
 32674855

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
 |||||
 Sbjct: 32674856 atagtctttttgggtcttctctgcctcgaattgtttgttttctctccatctgggtctact
 32674915

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
Sbjct: 32674916 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
32674975

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 32674976 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
32675035

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 32675036 attttatcctgtcgagtcttaccacacatccaccgcaatatacctcatctccgctacacct
32675095

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 32675096 actttagtctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
32675155

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 32675156 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
32675215

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 32675216 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
32675275

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttg 2238

|||||
Sbjct: 32675276 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttg
32675331

Score = 839 bits (423), Expect = 0.0
Identities = 441/447 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 32799876 aacgccttatccattaggtggggctcggctacatggatcaacttcggtcataatgttcta
32799817

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 32799816 tcaagtatcatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
32799757

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 32799756 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
32799697

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

||||| |||||||
Sbjct: 32799696 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtttattt
32799637

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

||||| |||||||
Sbjct: 32799636 tccaccatcttctctacaataggcgctactcccaccctctctctaataagcttcggtttcta
32799577

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

||||| |||||||
Sbjct: 32799576 attttatcctgtggagtcttaccacacatccaccgcaacatcctcatctccgctacacct
32799517

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

||||| |||||||
Sbjct: 32799516 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
32799457

Query: 2063 cttaccgcagtcgataaaaactttccc 2089

|||||
Sbjct: 32799456 cttaccgcagtcgataaaaactttccc 32799430

Score = 795 bits (401), Expect = 0.0
Identities = 425/433 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 11705149 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
11705208

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 11705209 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
11705268

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 11705269 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctatt
11705328

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 11705329 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
11705388

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 11705389 tccaccatcttctctacaataggcggtactccaaccctctctctaataagcttcgtttcta
11705448

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 11705449 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
11705508

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 11705509 actttagtctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
11705568

Query: 2063 cttaccgcagtcc 2075

|||||
Sbjct: 11705569 cttaccgcagtcc 11705581

Score = 732 bits (369), Expect = 0.0
Identities = 381/385 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 37905069 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
37905128

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 37905129 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
37905188

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 37905189 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
37905248

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
1882
|||||
Sbjct: 37905249 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
37905308

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 37905309 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
37905368

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 37905369 attttatcctgccgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
37905428

Query: 2003 actttattctcatgttgggtcttga 2027
|||||
Sbjct: 37905429 actttattctcatgttgactcttga 37905453

Score = 700 bits (353), Expect = 0.0
Identities = 356/357 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 7798051 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
7798110

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 7798111 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
7798170

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 7798171 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
7798230

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 7798231 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
7798290

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 7798291 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
7798350

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctaca 1999

|||||
Sbjct: 7798351 attttatcctgtcgagtcttaccacacatccactgcaacatcctcatctccgctaca
7798407

Score = 448 bits (226), Expect = e-123
Identities = 244/250 (97%)
Strand = Plus / Plus

Query: 1658 taggtgggggtcggctacatggatcaacttccgccataatgttctatcaagtaccataactt
1717

|||||
Sbjct: 211324 taggtgggggtcggctatatggatcaacttccgccataatgttctatcaagtaccataactt
211383

Query: 1718 ctatccaaaccattaatttcgagatcctttttgataacctctcttatagtctttttgggt
 1777

||||||| ||||| ||||||||||||||||||||||||||||||||||||
 Sbjct: 211384 ctatccaaatcattaagttcgagatcctttttgataacctctcttatagtctttttgggt
 211443

Query: 1778 cttcctctgcctcgaattgtttgtcttctctccatctggtctactctcctcactacagag
 1837

||||||| ||||||||||||||||||||||||||||||||||||
 Sbjct: 211444 cttcctctgtctcgaattgtttgtcttctctccatctggtctactctcctcactaccgag
 211503

Query: 1838 tctaccgggtcttctctctacatgcccaaaccacctaagtctattttccaccatcttctct
 1897

||||||||||||||||||||||||||||||||||
 Sbjct: 211504 tctaccgggtcttctctctacatgcccaaaccacctaagtctattttccaccatcttctct
 211563

Query: 1898 acaataggcg 1907

|||||||
 Sbjct: 211564 acaataggcg 211573

Score = 428 bits (216), Expect = e-117
 Identities = 243/252 (96%)
 Strand = Plus / Plus

Query: 1644 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
 1703

||||||||||||||||||||||||||||||||||
 Sbjct: 9616156 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
 9616215

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
 1763

|||||||||||||||||||||||||| ||||| ||||||||||||||||||||
 Sbjct: 9616216 caagtaccatacttctatccaaaccattgagttcgaagtcctttttgataacctctctta
 9616275

Query: 1764 tagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctactc
 1823

|||||||||| |||||||||||| || ||||||||||||||||||||
 Sbjct: 9616276 tagtctttttggatcttctctgccttgaagtgtttgtcttctctccatctcgtctactc
 9616335

Query: 1824 tcctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatttt
 1883

||||||||||||||||||||||||||||||||||

Sbjct: 9616336 tcctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtcctatctt
9616395

Query: 1884 ccaccatcttct 1895
|||||||
Sbjct: 9616396 ccaccatcttct 9616407

Score = 389 bits (196), Expect = e-105
Identities = 220/228 (96%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggctcggtacatggatcaacttcgcccataatgttctatcaa
1706
|||||||
Sbjct: 15589506 ccttatcccactaggtggggctcgactacatggatcaacttcggtcataatgttctatcaa
15589447

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
1766
|||||||
Sbjct: 15589446 gtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctcttatag
15589387

Query: 1767 tctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctactctcc
1826
|||||||
Sbjct: 15589386 tctttttgggtcttctctgtctcgaattgtttgtcttctctccatctggtctactctcc
15589327

Query: 1827 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaa 1874
|||||||
Sbjct: 15589326 tcactacagagtctaccgatcttctctctacatgcccaaaccatctaa 15589279

Score = 387 bits (195), Expect = e-104
Identities = 519/624 (83%), Gaps = 11/624 (1%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
6737
|||||
Sbjct: 18406474 atgcgatacatggaacattattttgggttgactcggttctcagatatctatttcgggtgtgt
18406533

Sbjct: 18406952 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
gtataaaatttgaccaaagtgaatcattggttggcttctctccctctttggttgaacaat
18407011

Query: 7211 gcattacacctagtatagggtgattttacca--acacacattgccagatTTTgtgttttc
7268

|||||
Sbjct: 18407012 gcattacaccttgtatagggtgattttaccagtgtactcattggtagatTTTgtgttttc
18407071

Query: 7269 ttgagtaccaaattaattaactca 7292

|||||
Sbjct: 18407072 ttgagtaccaaattaattgactca 18407095

Score = 323 bits (163), Expect = 3e-85
Identities = 175/179 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactagggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 21755737 aacgccttatcccactagggtggggtcggctacatggatcaacttccgccataatgttcta
21755678

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctTTTTgataacctctctt
1762

|||||
Sbjct: 21755677 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
21755618

Query: 1763 atagtctTTTTgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctac
1821

|||||
Sbjct: 21755617 atagtctTTTTgggtcttctctgcctcgaattgtttgccttctctccatctgggtctac
21755559

Score = 315 bits (159), Expect = 7e-83
Identities = 168/171 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactagggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 8968909 aacgccttatcccactagggtggggtcggctacatggatcaacttccgccataatgttcta
8968850

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctTTTTgataacctctctt
1762

|||||

Sbjct: 8968849 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
8968790

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatc 1813
|||||
Sbjct: 8968789 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatc 8968739

Score = 287 bits (145), Expect = 2e-74
Identities = 307/356 (86%), Gaps = 10/356 (2%)
Strand = Plus / Plus

Query: 6313 ttattaattgtctatatttgtgttctgtttaaattgaaaacaatattatttttcatatgt
6372
|||||
Sbjct: 32828939 ttattaattttttatatttatgttttctttaaaactgaaaataatattattttacatattgt
32828998

Query: 6373 tgttaattcttaatttcttat-gcatattttatgttttatcattttttaagagttgaaat
6431
||||
Sbjct: 32828999 tgtt---cttaatttttttttgcataattttatattttatcatttttgaagagttgaaaa
32829054

Query: 6432 cctttgtattttttattttatttgattattataatacataattaacaacaacttaattga
6491
|||||
Sbjct: 32829055 tctttgtattttttattttatttgattattaaaaatagaaattaatcaataacttagtgga
32829114

Query: 6492 aattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaattacaaa
6551
|||||
Sbjct: 32829115 aattaaaatatatatattttaacaaacaagtagaattgaactaaaa---ttaaattacaca
32829171

Query: 6552 atagatatgaaattacaaacaatagaacaaaatattttaatttgaaataatacaacaaaa
6611
|||
Sbjct: 32829172 atacatataaaattacaaataattgaacaaaatattttaatttgaaataatagaac-aaa
32829230

Query: 6612 atttttaaatacaaaacaatatggcataaaattaatgttgttggcctgagcctacac 6667
|||||
Sbjct: 32829231 atttttaa-aacaaacaattacataaaacttaacgttgctgggttgagcctacac
32829285

Score = 258 bits (130), Expect = 1e-65
Identities = 133/134 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 7132432 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
7132491

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 7132492 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
7132551

Query: 1763 atagtctttttggg 1776
|||||
Sbjct: 7132552 atagtctttttggg 7132565

Score = 242 bits (122), Expect = 8e-61
Identities = 276/326 (84%), Gaps = 1/326 (0%)
Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490
|||||
Sbjct: 15370569 atacaacaatgaaaaacacacatgatgactacaaatcattaagtagtaaaataaaaatca
15370628

Query: 7491 aataatttggggaggggggtcttcaaaacttgattcaagggtcattgtatcatcgagggtat
7550
|||||
Sbjct: 15370629 aataatttcggg-ggttttcttcaaaacttgattcaagggtcatttttttattgagggtat
15370687

Query: 7551 tcacccaaaccctccaaattcaaagagcttgcaaaaactggtggtggttgatcatatggt
7610
|||||
Sbjct: 15370688 tcatccaaaccctccaaattcaaagagcttgcaaaaataggtggttagatgtgcacatggt
15370747

Query: 7611 tatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagtttc
7670
|||||

Sbjct: 15370748 tgtgtgagtgtctctacagtgataatatataactcaaggcatgtgagattgaagagtttc
15370807

Query: 7671 ccaaatatagaaaacatagtaattatttcctcatcatcttgagcagcatatgcctgtac
7730

|| ||| ||||||||| ||| ||||||||| | || || ||||||| |||||
Sbjct: 15370808 ttgaacatacaaaacatagtcattacgtcctcatcatcatacaaatatgcatgcctgtac
15370867

Query: 7731 tgaaaacaatcaccaacaaatgatac 7756
| |||||||||||||||||
Sbjct: 15370868 tagtcacaatcaccaacaaatgatac 15370893

Score = 242 bits (122), Expect = 8e-61
Identities = 231/264 (87%), Gaps = 5/264 (1%)
Strand = Plus / Minus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataattttttatc
4816

||||||||| ||||||| ||||||| ||| ||||||| || ||||||| ||| |
Sbjct: 16127206 taactgttaattttttattggtaccgtaagtaacaattaatgagcaataattcttcacc
16127147

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876

||||||||| ||||||||||||||||| ||||||| ||||||||||||||||| ||
Sbjct: 16127146 aatatcatagctttgtttagaaaaaaagatatttaataagttaatagctaaagaaatctaa
16127087

Query: 4877 aagtttttcttttatttttattttgttcctattcaattctaattttgtcat-ttttttca
4935

|| ||| ||||||| ||| | ||||||||||||||||||||| || ||| |||
Sbjct: 16127086 aaaaatttattttatttctattctcttcctattcaattctaattttgtcttcttttctca
16127027

Query: 4936 ctgtctctcgtaacttctct---gtcttctcacctgtttcttcagtttacttgattattat
4992

|| ||||||| ||||||||| ||||||||| ||| ||||||||||||||||||||| |
Sbjct: 16127026 ctatctctcatacttctctatcgtcttctctcctgcttcttcagtttacttgattattgt
16126967

Query: 4993 tttactttgatacattagccaata 5016

|| ||||||| ||||||||| |||
Sbjct: 16126966 ttcactttgacacattagccaata 16126943

Score = 238 bits (120), Expect = 1e-59
Identities = 498/620 (80%), Gaps = 8/620 (1%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737
Sbjct: 31947551 atgcgacacatggaacatcactttggttttctcagttctcaggtatacatttcagtgtgt
31947610

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797
Sbjct: 31947611 atatgaaaagagataaaacgacccttagaatttcttttcttctctgggtcatggcaaatt
31947670

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857
Sbjct: 31947671 attggctcatgacatgatgaccaatatgttttgttgacaattctccaacaatcctttg
31947730

Query: 6858 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
6917
Sbjct: 31947731 tatacattggagacactttccaacgtatacacaagatgtatgtaatttctgtactcatcg
31947790

Query: 6918 tgagcatgcttataa---acaacaacatgagaacaaaacatgtgcattttttgaaatttg
6974
Sbjct: 31947791 tgagcatgcttacaagtaacaataacatgagaataagacatgtgtaatttttgaatttg
31947850

Query: 6975 tcacagtacactacctttcatctagcttgaccatgaaatttctcactagttgaatctct
7034
Sbjct: 31947851 tcatagtacaccacctttcctccaacccgaccctgaaatttttagtggggtcgaacctct
31947910

Query: 7035 ctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaa
7094
Sbjct: 31947911 ctctca--ttaattttc-cctaaactaagaaccgtgtgtcgcacatcgatcgaactcaagat
31947967

Query: 7095 caatgtgagagtttgccctttttctgtatgtctttcatagccttgtttaatacttttgtat
7154

Sbjct: 31947968 caatataagagtttgtctttctttgtgtgtcttccatagccttggttagtacttgtgtat
31948027

Query: 7155 aaacttcaccaaataatgaatacactcttgcgacttctctcccccttggttgaacaatgcat
7214

Sbjct: 31948028 aaacttggtcaaatagcatttattgttgtagcttttctccctcttggttgagcaatgcat
31948087

Query: 7215 tacacctagtatagggttgattttaccaac--acacattgccagattttgtgttttcttga
7272

Sbjct: 31948088 tacaccttctatagggttgattttatcatcgacatattggcaaatttcatgttttcttga
31948147

Query: 7273 gtaccaaattaattaactca 7292
Sbjct: 31948148 gtaccgaattaattgactca 31948167

Score = 220 bits (111), Expect = 3e-54
Identities = 276/329 (83%), Gaps = 4/329 (1%)
Strand = Plus / Plus

Query: 7426 cagtgaatacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattac
7485

Sbjct: 18410522 cagtaatacaacaataaacaacacatatgacgactacaaatcattaaataataaaatagt
18410581

Query: 7486 aatcaaataatttgggg--agggggtcttcaaaacttgattcaagggttcattgtatcatc
7543

Sbjct: 18410582 aatcaaataaattgggtgaagggtttctgcaaaactcaattcaagggttcattgcttcatc
18410641

Query: 7544 gaggtattcacccaaaccctccaaattcaaagagcttgagaaactggtggtggttggtgc
7603

Sbjct: 18410642 gatgcattcatccaaaccctctaaattcaaagagcttgtagaaattggtggcagtgatga
18410701

Query: 7604 atatgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaa
7663

Sbjct: 18410702 acatgtttgtgtaggtgtgcctgtggtgataagatataactcaaggcatgtgaggtt--a
18410759

Query: 7664 gagtttcccaaataatagaaaacatagtaattatttcctcatcatcttgagcagcatacatgc
7723

||||| | | ||||||||| ||||||| ||| ||||| ||| || |||
Sbjct: 18410760 gagttgctcgaatatagaaaacatattaattatgtccttatcatctttcagtatgtatgc
18410819

Query: 7724 cctgtactgaaaacaatcaccaacaaatg 7752

||||||| ||||||||| |||||||
Sbjct: 18410820 cctgtactaaaaacaatcactaacaacaaatg 18410848

Score = 210 bits (106), Expect = 3e-51
Identities = 121/126 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

||||||||| ||||||||| ||||||||| ||||||||| ||||||||| |||
Sbjct: 6349600 aacgccttatcccactaggtggggctcggctacatggatcaacttcagccataatgttcta
6349659

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|| ||||||||| ||||||||| ||||||| ||||||||| ||||||||| |||
Sbjct: 6349660 tccagtaccataacttctatccaaatcattaagttcagagatccttcttgataacctctctt
6349719

Query: 1763 atagtc 1768

|||||
Sbjct: 6349720 atagtc 6349725

Score = 210 bits (106), Expect = 3e-51
Identities = 193/222 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||||| ||||||||| ||||||||| |||| || ||||||||| |||
Sbjct: 16505032 aaaattaattgtcacaaaatttattatctaaatttacatgtgcattaaatatacattaga
16505091

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||||| || || || ||||||||| ||||||||| | ||||| |||

Sbjct: 20681385 --aaatatagaaagcatagtaattatgtcctcttcattcttgacagtatgcatg-cctatac
20681441

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||

Sbjct: 18846611 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
18846552

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcg 1738
|||||
Sbjct: 18846551 tcaagtaccatacttctatccaaaccattaatttcg 18846516

Score = 186 bits (94), Expect = 4e-44
Identities = 265/319 (83%), Gaps = 6/319 (1%)
Strand = Plus / Minus

Query: 6897 atgtagttcctatactcatgggtgagcatgctt----ataaacaacaacatgagaacaaaa
6952
|||||
Sbjct: 15060977 atgtagttcctatactcatggggagcattttttacaagcagcaacaacatgagaacaagg
15060918

Query: 6953 catgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaa
7012
|||||
Sbjct: 15060917 catgtgcaccttttggaatttggcacagtcacaccacctttcatccaacctgaccatgaa
15060858

Query: 7013 atttctcactagttgaatctctctctccagttaattgtctcctagactaagaattgtatg
7072
|||||
Sbjct: 15060857 atttc-caataggtagaac-ctctctcaggttaattgtctcctagactaagaatcatatg
15060800

Query: 7073 tcgcattaatcgaactcaagaacaatgtgagagtttgcccttttctgtatgtctttcata
7132
| |||
Sbjct: 15060799 ttacatcgatcaaactcaagaacaatgtgagagtttgtctatctctgtgcgtattttgta
15060740

Query: 7133 gccttgtttaatacttttgtataaaacttcaccaaataatcactcttgcgacttctctc
7192
|||||
Sbjct: 15060739 gccttgtttagtacttgtgtataaaacttgatcagatgtaatacattgttacgacttctcta
15060680

Query: 7193 cccctttggttgaacaatg 7211
||
Sbjct: 15060679 cctctttggttgaacaatg 15060661

Score = 184 bits (93), Expect = 2e-43
Identities = 150/169 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| | ||||||||||||||||||||||| ||||||| ||||||||||||| |
Sbjct: 15250430 aaaattaattatcacaaaatttattatctaaatttacatgcacattaaatatacattata
15250489

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||| || || || || ||||||||||||||||||||||| |||||| |
Sbjct: 15250490 aatttttagtggttaaataataatgatattaattattttataacataattgacatattagctc
15250549

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattc 5285
 ||||||||||||| ||||||||||||| |||||| | |||||||||||||
Sbjct: 15250550 agttggtagagtgttatgttaataaacacgaaagtgataagttcaattc 15250598

Score = 184 bits (93), Expect = 2e-43
Identities = 162/184 (88%), Gaps = 2/184 (1%)
Strand = Plus / Plus

Query: 6485 taattgaaattaaaaaat--atatatttaactgacaagttgacttgaactaaaatattta
6542
 ||||||||||||||||| | ||||||||| ||||||||| |||||||||||||||||
Sbjct: 18406257 taattgaaattaaaaaaagaagatatttaaccaacaagttgaattgaactaaaatattta
18406316

Query: 6543 aattacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataat
6602
 ||||| ||||||||||||| ||||||||| ||| ||||||||||||||||| || |||||||
Sbjct: 18406317 aattagaaaatagatatataaaattacaaaaaataaaacaaaatatttaaattttaataat
18406376

Query: 6603 acaacaaaaatttttaaaatacaaacatatggcataaaattaatgttggtggcctgagcc
6662
 | ||||||||||||||||||||||||| ||||||| ||||||| |||| | || || || |||||
Sbjct: 18406377 ataacaaaaatttttaaaatacaagaatatgacataaacttaacattttttgcttgagcc
18406436

Query: 6663 taca 6666
 |||||
Sbjct: 18406437 taca 18406440

Score = 182 bits (92), Expect = 7e-43
 Identities = 140/156 (89%)
 Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
 6737
 Sbjct: 15061319 atgcgacacatggaacatcattttggttgacgtgattctcggatgtccattttgatatgt
 15061260

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
 6797
 Sbjct: 15061259 atacaagaggagacaagacaacctttagaatttcttttcatttttgggtcggggcagatt
 15061200

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattg 6833
 Sbjct: 15061199 cttggctcatgacacggtgtccaatatgcttcattg 15061164

Score = 182 bits (92), Expect = 7e-43
 Identities = 162/184 (88%), Gaps = 1/184 (0%)
 Strand = Plus / Plus

Query: 6485 taattgaaattaa-aaaatatatatatttaactgacaagttgacttgaactaaaatatttaa
 6543
 Sbjct: 20610941 taattgaaattaagaaaagatatatttaacaaacaagttgaattgaactaaaatatttaa
 20611000

Query: 6544 attacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataata
 6603
 Sbjct: 20611001 attgtaaaaaagatatataaaattacaaataatagaacaaaatatttaaatttgaaacaata
 20611060

Query: 6604 caacaaaaattttaaaatacaaacaatatggcataaaattaatgttgttggcctgagcct
 6663
 Sbjct: 20611061 caacaatttttttaaaatacaaagaatatgacataaaacttaacagtgttggccttgaccct
 20611120

Query: 6664 acac 6667
 ||||

Sbjct: 20611121 acac 20611124

Score = 174 bits (88), Expect = 2e-40
Identities = 161/184 (87%), Gaps = 1/184 (0%)
Strand = Plus / Plus

Query: 6485 taattgaaattaa-aaaatatatatttaactgacaagttgacttgaactaaaatatttaa
6543

|||||
Sbjct: 20598301 taattgaaattaagaaaagatatatttcacaaacaagttgaattgaactaaaatatttaa
20598360

Query: 6544 attacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataata
6603

||| ||| ||||| |||||
Sbjct: 20598361 attgtaaaaaagatatataaaattacaaataatagaacaaaatatttaaatttgaaacaata
20598420

Query: 6604 caacaaaaattttaaaatacaaacaatatggcataaaaattaatgttggtggcctgagcct
6663

||||| |||||
Sbjct: 20598421 caacaatttttttaaaatacaaagaatatgacataaaacttaacagtgttggttgacct
20598480

Query: 6664 acac 6667

|||
Sbjct: 20598481 acac 20598484

Score = 165 bits (83), Expect = 2e-37
Identities = 183/214 (85%), Gaps = 3/214 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 35056758 aaaattaattttcataaaatttattatataaaatttacatgtgcaataaatatacattaga
35056699

Query: 5177 aatttttagtgttatatatttagtgaaattaattatttttataacataattgatgtattagttc
5236

|||||
Sbjct: 35056698 aatttttagtgttatatataacgacattaatttttttataacataattgacctattagctc
35056639

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattct-tacttggat
5295
|||| ||| || |||| |||||||| |||||||| | ||| ||| || || ||||
Sbjct: 35056638 agttagttggaacattgtgttaataatttgaaagtcacatgttgaatcctgta--tggac
35056581

Query: 5296 cattaattttaaattaatttgtaaaatatatattt 5329
||||| ||||||||| |||| |||||
Sbjct: 35056580 cattaacttttaaattaatttgcaaaacatatattt 35056547

Score = 163 bits (82), Expect = 6e-37
Identities = 182/214 (85%), Gaps = 1/214 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||||| ||||||||| ||||||| ||| |||||||||
Sbjct: 24328145 aaaattaattgacacaaaatttattatttaaatttacatgtgcaataaatatacattaga
24328204

Query: 5177 aatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||| |||| | || | |||| ||||||||| ||||||| ||||| ||
Sbjct: 24328205 aatttttagtattatgtataacaacattattttattttataacataattggcctattagctc
24328264

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
||||||| |||| | ||||||| ||||||| | ||| ||| || |||||
Sbjct: 24328265 agttggttagagc-gtgtgttaataacctgaaagtcataggtttgatttttgcttggatc
24328323

Query: 5297 attaattttaaattaatttgtaaaatatatattttt 5330
||||||| ||||| |||||
Sbjct: 24328324 attaattttaaattaatttcgtaacacatatattttt 24328357

Score = 159 bits (80), Expect = 1e-35
Identities = 165/192 (85%), Gaps = 1/192 (0%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacacaaat-aaatatacatta
5174
||||||| ||||||||| ||||||| |||| ||| |||||
Sbjct: 15434012 aaaaattaattgtcacaaaatttattatataaaatttacatgtgcatttaaatacatta
15434071

Query: 5175 gaaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagt
5234

|||||
Sbjct: 15434072 gaaatTTtaatgTtatataacgacattaattatTTTatatcatacttgatttattagc
15434131

Query: 5235 tcagttggTtagagcattatgTtaataatgtgaaagTcaaaagTtcaattcttacttgga
5294

|||
Sbjct: 15434132 tcaattggTtagagcatcgTgctaataatatgaaagTcacatgTttgattcctacttgga
15434191

Query: 5295 tcattaattTTta 5306

|||||
Sbjct: 15434192 ccattaattTTta 15434203

Score = 157 bits (79), Expect = 4e-35
Identities = 79/79 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggTcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 33095218 aacgccttatccactaggtggggTcggctacatggatcaacttccgccataatgttcta
33095159

Query: 1703 tcaagtaccatacttctat 1721

|||||
Sbjct: 33095158 tcaagtaccatacttctat 33095140

Score = 155 bits (78), Expect = 2e-34
Identities = 129/146 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaaTTtattatctaattTgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 2940043 aaaattaattgttaacaaaaTTtattatctaattTacatgcacattaaatatacattaaa
2939984

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtTc
5236

|||||

Sbjct: 2939983 aatttttagttttatatataataatattaattatttttataatataaattgatctattagctc
2939924

Query: 5237 agttggtttagagcattatgttaataa 5262
| ||||| ||||| | ||||| |||||
Sbjct: 2939923 aattggtttagagtgtcatgttaataa 2939898

Score = 155 bits (78), Expect = 2e-34
Identities = 123/138 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16668124 aaaatcaattgttacaaaatttattatttaaatttacatgcacattaaatatgcattaga
16668183

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16668184 aatttttagtggttatatataacaaaattatttattttataacacaattaacttattagttc
16668243

Query: 5237 agttggtttagagcattat 5254
||||| ||||| ||||| |||||
Sbjct: 16668244 agttggtttagagtattat 16668261

Score = 155 bits (78), Expect = 2e-34
Identities = 184/218 (84%), Gaps = 1/218 (0%)
Strand = Plus / Plus

Query: 7539 tcatcgaggtattcacccaaaccctccaaattcaaagagcttgcagaaaactggtggtggt
7598
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 26160021 tcatcaaggtattcgtccaaatcctccaaattcctaagagcttgtagaaattggtggtggt
26160080

Query: 7599 tgtgcatatgtttatgtgggtgtgtctacgggtga-taacataaaaactcaaggcatgtgaa
7657
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 26160081 tgtgcacatgtctgtgtgggtgcgtccttagtgagtaacataaactcaaaacatgtgag
26160140

Query: 7658 gttgaagagtttcccaaatatagaaaacatagtaattatttcctcatcatcttgagcat
 7717
 |||| |
 Sbjct: 26160141 gttggggagtttcccaaatatagaaaaaatagttattatgtccttatcatcttgtagtat
 26160200

Query: 7718 acatgccctgtactgaaaacaatcaccaacaaatgata 7755
 |||| |
 Sbjct: 26160201 acatgtcccatactgaacacaatcccccaataaatgata 26160238

Score = 155 bits (78), Expect = 2e-34
 Identities = 173/204 (84%), Gaps = 3/204 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
 5176
 |||| |
 Sbjct: 27360299 aaaattaattgtcacaaaatttattatttaaataacatgcacattaaatacattaga
 27360358

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||| |
 Sbjct: 27360359 aatttttagtggttatgtata---acattatttattttataatgtaattgacttattagctc
 27360415

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgatc
 5296
 | |||| |
 Sbjct: 27360416 aattggtagagtgttgatttaataacctgaaagtcacatgttcaattcttgcttgatcc
 27360475

Query: 5297 attaattttaaattaatttgtaaa 5320
 |||| |
 Sbjct: 27360476 attaattttaaattaatttcgtaaa 27360499

Score = 155 bits (78), Expect = 2e-34
 Identities = 150/174 (86%)
 Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaattacaa
 6550
 |||| |
 Sbjct: 31947342 aaataaaaaaaaacatatattttactaacaagttgaattgaactaaaatatttaaattacaa
 31947401

Query: 6551 aatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaa
6610

|||| |||| ||||||||| | ||||||||||||| ||||||||| ||
Sbjct: 31947402 aatatatataaaaattacaaaaagtagaacaaaatatctaaatttgaaacaataacaacgaa
31947461

Query: 6611 aattttaaaatacaaaacaatatggcataaaattaatgttggtggcctgagccta 6664

||||||| |||||| | ||||| |||||| ||| ||||||||| | |||||||
Sbjct: 31947462 aattttataatacacagaatgatgacataaatttaacggttggtgctaagccta
31947515

Score = 151 bits (76), Expect = 2e-33
Identities = 118/132 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||||||| ||||||||||||||||||||| |||| || ||||||| ||||| |
Sbjct: 5803498 aaaattaattgtcacaaaatttattatctaaatttccatgtgcattaaatatgtattaaa
5803439

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

| ||||||||||||| |||||| | ||||||||||||||||||||| || |||||||||
Sbjct: 5803438 atttttagtggttatatatagtgatattaattattttataacataatttatctattagtta
5803379

Query: 5237 agttgggtagag 5248

|||||||||||
Sbjct: 5803378 agttgggtagag 5803367

Score = 151 bits (76), Expect = 2e-33
Identities = 118/132 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||||||||||||||||||||||| |||| || ||| || |||||||||||||
Sbjct: 11412774 aaaattaattggttacaaaatttattatgtaaaattatatgtgcattaaatatatacattaga
11412715

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 11412714 aatttttagtggttatataataatgatattaattattttataacataattaacctattagttc
11412655

Query: 5237 agttgggtagag 5248
|||||
Sbjct: 11412654 agttgcttagag 11412643

Score = 149 bits (75), Expect = 1e-32
Identities = 186/223 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
|||||
Sbjct: 5867525 aaaattaattgtcataaaaatttgttatttaaatttacatgcgaattaaataacattaga
5867584

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 5867585 tatttttagtggttatataaacaacattatttattttataacataattgatttattagctc
5867644

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||||
Sbjct: 5867645 agttgactagaacatcatacttttaacttaaaattcataggttcgactcttgcttggacc
5867704

Query: 5297 attaatTTTTAAATTAATTGTAAAATATATTTTTGAAAAAAA 5339
|||||
Sbjct: 5867705 attaatTTTTAAATTAATTCGTAAAACATATTTTTGAAAAAAA 5867747

Score = 149 bits (75), Expect = 1e-32
Identities = 209/252 (82%), Gaps = 5/252 (1%)
Strand = Plus / Plus

Query: 6872 acttttcagcgtatacacagaatgtatgtagttcctataactcatgggtgagcatgcttata
6931
|||||
Sbjct: 15366966 acttttcaacgtatacacatgatgtatgtagttcatgtactcatgggtgagcatgcttata
15367025

Query: 6989 cctttcatctagcttgaccatgaaatctctcactagttgaatctctctctccagttaatt
7048

Query: 7049 gtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagttt
7108

```
Query: 7109      gcctttttctgt 7120
              ||||| |||||
Sbjct: 15367204 gcctttctctgt 15367215
```

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797

Query: 6798 cttggccttgtagacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857

Query: 6858 tacatggtatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgg
6917

Score = 143 bits (72), Expect = 6e-31
Identities = 175/208 (84%), Gaps = 1/208 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176

|||||
 Sbjct: 23366533 aaaattaattggttacaaa-tttattatgtaaacttatatgtgtgttaaatacattaga
 23366475

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 23366474 aatttttagtggttatataacgacattaattattttataacataattggcctattaatcc
 23366415

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296

||||
 Sbjct: 23366414 agtgagtagagtggtgacattaataatgtgaaagtcacagggtcaaattcattcatggacc
 23366355

Query: 5297 attaattttaaatattttgtaaaatat 5324
 |||||
 Sbjct: 23366354 attaattttaaatattttgtaaaatat 23366327

Score = 139 bits (70), Expect = 9e-30
 Identities = 113/126 (89%), Gaps = 1/126 (0%)
 Strand = Plus / Minus

Query: 6542 aaattacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatgtgaaataa
 6601

|||||
 Sbjct: 15061477 aaattacaaaatagatatataaaattataaacaatagaacaaaatattttaaatgtgaaacaa
 15061418

Query: 6602 tacaacaaa-aatttttaaaatacaaaacaatatggcataaaattaatggtgttggcctgag
 6660

|||||
 Sbjct: 15061417 tacaacaaatttttttaaaataaaaacaatatgacataaacttaacgttattgggttgag
 15061358

Query: 6661 cctaca 6666
 |||||
 Sbjct: 15061357 cctaca 15061352

Score = 137 bits (69), Expect = 4e-29
 Identities = 126/145 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

||||| ||| ||||||||| ||||||| ||| || ||| |||||||||
 Sbjct: 6096209 aaaattatttgtcacaaaatttattatgtaaatttacatgtgcattaattatacattaga
 6096268

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||||||||| || || ||||||||||||||||||||||| |||||
 Sbjct: 6096269 aatttttagtggttatataacgcattaattattttataacataattgacctattagctt
 6096328

Query: 5237 agttggtagagcattatgttaata 5261
 ||||||| ||||| ||| |||||
 Sbjct: 6096329 agttggtttgagcatcatgctaata 6096353

Score = 133 bits (67), Expect = 6e-28
 Identities = 128/147 (87%), Gaps = 1/147 (0%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacattag
 5175

||||||||| || | ||||||||| || ||||||| ||| || |||||||||
 Sbjct: 30652218 aaaaattacttatcacaaaatttatcatgtaaatttacatgtgcattaatatacatta-
 30652160

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235

||||||||| ||||| ||||| ||||||||||||||||||||||| |||||
 Sbjct: 30652159 aaatttttagtattatatatagtgacattaattattttataacataattgatctattagat
 30652100

Query: 5236 cagttggtagagcattatgttaataa 5262
 || ||||||||| ||| || |||||
 Sbjct: 30652099 caattggtagagtattgtgctaataa 30652073

Score = 129 bits (65), Expect = 9e-27
 Identities = 113/129 (87%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

||||||||||| ||||||||| ||||| || ||| || ||||| |||||||||

Sbjct: 7669508 aaaattaattgtcacaaaatttattatgttaaacttatatgtatatattaatttacattaga
7669567

Query: 5177 aatttttagtggttatattttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 7669568 aatttttagtggttatatatagtgatgttaattattttttaacataattgaactattagttc
7669627

Query: 5237 agttgggta 5245

| |||||
Sbjct: 7669628 aattgggta 7669636

Score = 129 bits (65), Expect = 9e-27
Identities = 149/177 (84%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattttagtggttatattttagtgaaattaattattttataacataa
5221

|||||
Sbjct: 15081431 taaatatatattagaaattttagtattatatataacgacattaattattttataacataa
15081490

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataatgtgaaagtcaaaagttca
5281

|||| |||| | |||||
Sbjct: 15081491 ttgacctattaacttagttgggttagaacattgtgctaataacacgaaagttacaagtttg
15081550

Query: 5282 attcttacttggatcattaattttaaaattaatttgtaaaatatatttttgaaaaaaaa
5338

||| || |||| |||||
Sbjct: 15081551 atttctatttggggtcattaattttaaaattaattcataaaatatatttttgaaaaaaaa
15081607

Score = 129 bits (65), Expect = 9e-27
Identities = 128/148 (86%), Gaps = 2/148 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaa--taaataacatta
5174

|||||
Sbjct: 16667888 aaaattaattgtcacaaaatttattattttaaaatttacatgcacacattaaatatacatta
16667829

Query: 5175 gaaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
5234
|||||
Sbjct: 16667828 gaaatttttagtattatatataataatattatttattttataacgtaattgggttcattagc
16667769

Query: 5235 tcagttggtagagcattatggttaataa 5262
|||||
Sbjct: 16667768 tcagtttagtagagcattgtgctaataa 16667741

Score = 129 bits (65), Expect = 9e-27
Identities = 113/129 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
|||||
Sbjct: 36133607 aaaattaattgtctcaaaatacattatctaaatttacatgcgcattaaatatacattata
36133548

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 36133547 aatttttagtattatatataatgacattaattattttataacataatttgtctattagttc
36133488

Query: 5237 agttgggtta 5245
||||
Sbjct: 36133487 agtttagtta 36133479

Score = 127 bits (64), Expect = 3e-26
Identities = 205/252 (81%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
6737
|||||
Sbjct: 20611156 atgcgacacatagaatatcattttgggttgatgcaattcttatatatccatttttagtgagt
20611215

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttggggtgggggcaaatt
6797
|||||

Sbjct: 20611216 atacaagaggagataggatgacctttagaatttcttttcttctctgggtcagggctgatc
20611275

Query: 6798 cttggcttgtagacatgggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857

||||| ||| ||||||||| | |||||| | ||| ||| ||| ||| |||
Sbjct: 20611276 cttggctcgtgatatgggtgaccaatacacttcattatgcaattcccaaataatcctctg
20611335

Query: 6858 tacatggttatagatacttttcagcgtatacacagaatgtatgtagttcctataactcatgg
6917

|| |||| | || |||| | | |||||| | |||||| | ||| |||||||||
Sbjct: 20611336 tatatggttgagacactttccaacatatacacgtgatgtatgcagttgctataactcatgg
20611395

Query: 6918 tgagcatgctta 6929

|||||||
Sbjct: 20611396 tgagcatgctta 20611407

Score = 125 bits (63), Expect = 1e-25
Identities = 96/107 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||| | | ||||||||| || || ||| |||||||||
Sbjct: 9974250 aaaattaattatcataaaatttattatctaaatttatatacattaaatatacattaga
9974191

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223

||||||| ||||| ||||||||| |||||
Sbjct: 9974190 aatttttagtggttatatatagtgacattaattattttataatataatt 9974144

Score = 125 bits (63), Expect = 1e-25
Identities = 124/143 (86%), Gaps = 1/143 (0%)
Strand = Plus / Minus

Query: 5131 caaaatttattatctaaatttgcacataaatatacattagaaatttttagtggttat
5190

||||||| ||||| || | ||||||||| |||||||||
Sbjct: 15250229 caaaatttattatctaaatttacat-catattaaatatacattacaaatttttagtggttat
15250171

```
Query: 5176      aaatTTtagtgTtatatTTtagtgaaattaattatTTTtataacataaTTgatgtattagtt
5235            |||
Sbjct: 30653028 aaatTTtagtattatatatagcgacattaattatTTTtataacataaTTggTTtattagtt
30653087
```

Query: 5236 cagttgggtagag 5248
 |||||
 Sbjct: 30653088 tagttgggtagag 30653100

Score = 121 bits (61), Expect = 2e-24
 Identities = 191/233 (81%), Gaps = 1/233 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 36501885 aaaattaattgtcataaaaataattatgtaaatttacatgtgcattaaatatacattaga
 36501944

Query: 5177 aattttagtggttatatttagtgaaattaattatttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 36501945 aattttactattatatatagcaacattaattgttttataacataattgatctattagctt
 36502004

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 36502005 agttggtagagtgtcgtgttaataatttgaatgtcatagggttgaatcctatatggggt
 36502064

Query: 5297 attaatTTTaaattaatttGTaaaatatattttgaaaaaaaaattataaaaa 5349
 |||||
 Sbjct: 36502065 attaatTTTaagttaattcGTaaaacat-tttttaaaaaaataattataaaaa
 36502116

Score = 119 bits (60), Expect = 9e-24
 Identities = 114/132 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 23366765 aaaattaattatcacaaaatttattctgtaaatttacatgtgcattaaatatacattaga
 23366824

Query: 5177 aattttagtggttatatttagtgaaattaattatttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 23366825 aatttttagtggttatatataagaacattaattattttataacataattgacctattaactc
 23366884

Query: 5237 agttggtagag 5248
 |||||
 Sbjct: 23366885 agttgattagag 23366896

Score = 119 bits (60), Expect = 9e-24
 Identities = 128/149 (85%), Gaps = 5/149 (3%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 36133805 aaaattaattggttacaaaatttattatctaa--ttacatgtgcaataaatatacattaga
 36133862

Query: 5177 aatttttagtggttatatttagtgaaatta---attattttataacataattgatgtattag
 5233
 |||||
 Sbjct: 36133863 aattttggtattacatatagcgatattaattattattttataacataattgacttattag
 36133922

Query: 5234 ttcagttggttagagcattatgttaataa 5262
 | |||||
 Sbjct: 36133923 cttagttggttaaagcgatcatgttaataa 36133951

Score = 119 bits (60), Expect = 9e-24
 Identities = 177/214 (82%), Gaps = 4/214 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 36674965 aaaattaattatcacaaaatttattatgttaaacttacatatatattaaatttacattaga
 36674906

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 36674905 aattctagtgtgtatatagcaacattaattgttttataacataattgacttattagttc
 36674846

```
Query: 5117      aaaaattaattgttacaaaaattttattatctaaatttgcattgcacaataaaatat-acattag
5175           ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11480580 aaaagtaattatcacaaaaattttattatttaaatttacatgcgcattaaatattacattaa
11480639
```

[illegible]

Query: 5177 aattttaagtgttatatttaagtqaaattaattattttataacataattga 5225

Score = 109 bits (55), Expect = 8e-21
Identities = 97/111 (87%)

Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacatag
5175

|||||
Sbjct: 2202365 aaaaattaattatcacaaaatttattatataaaatttacatgtacattaaatataaaattaa
2202306

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgat 5226

|||||
Sbjct: 2202305 aaattttaattgttatataataacgacattaattattttataaaaataattgat 2202255

Score = 109 bits (55), Expect = 8e-21
Identities = 112/131 (85%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcacatgcacaataaatatacatagaaattttagtggtata
5191

|||||
Sbjct: 7101255 aaaatttattatgtaaatttgcacatgtgtattaaatatacatattataaaattttagtggtata
7101196

Query: 5192 ttttagtgaaattaattattttataacataattgatgtattagttcagttggtagagcat
5251

|||
Sbjct: 7101195 tataacgacattaattattttataacacaattatcttattagttcagttggtaaagtgt
7101136

Query: 5252 tatgttaataa 5262

|
Sbjct: 7101135 tgtgttaataa 7101125

Score = 107 bits (54), Expect = 3e-20
Identities = 69/74 (93%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacataga
5176

|||||
Sbjct: 8354190 aaaattaattgtcataaaaatttattattttaaatttacatgcacattaaatatacataga
8354131

Query: 5177 aattttagtggttat 5190

|||||

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

|||||
Sbjct: 8148234 aaaattaattgtcacaaaatttattatttaaatttacatgtgcattaaatataaattaaa
8148293

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 8148294 attttttagtggttatatataataatattattttattttataacataattaacctattagcgc
8148353

Query: 5237 agttgggta 5245
|||||
Sbjct: 8148354 agttgggta 8148362

Score = 105 bits (53), Expect = 1e-19
Identities = 65/69 (94%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 10267782 aaaattaattgtcacaaaatttattatctaaatttacatgcgcattaaatatacattaga
10267723

Query: 5177 aatttttagt 5185
|||||
Sbjct: 10267722 aatttttagt 10267714

Score = 105 bits (53), Expect = 1e-19
Identities = 163/199 (81%), Gaps = 3/199 (1%)
Strand = Plus / Plus

Query: 5134 aattttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggttatatt
5193
|||||
Sbjct: 16343560 aattttattatttaaatttacatgcacattaaatatacattaaagatttttagttttatata
16343619

Query: 5194 tagtgaaattaattattttataacataattgatgtattagttcagttgggttagagcatta
5253
|| |
Sbjct: 16343620 ta---acattattttattttataacataattaacctattaactcagtttagtttagagcgtca
16343676

```

Query: 5237      agttggtagag 5248
             |||||
Sbjct: 5382872 agttggttagag 5382861

```

Score = 103 bits (52), Expect = 5e-19
 Identities = 164/199 (82%), Gaps = 3/199 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 5383224 aaaattaattgtcacaa--tttattatgtaaatttgcacataaatgtacattaga
 5383281

Query: 5177 aa-ttttagtggttatatttagtgaaattaattttttataacataattgatgtattagtt
 5235
 || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 5383282 aaatttttagtggttatatataacgacattaattttttataatgtaattgacgtattaact
 5383341

Query: 5236 cagttggtagagcattatgttaataatgtgaaagtcaaaagttcaattccttacttggat
 5295
 | ||||| | || | ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 5383342 cggttggtagaaagtgatgtaataacgtgaaagtcacatgttcgattccttgcacggc
 5383401

Query: 5296 cattaatttttaaattaatt 5314
 ||||| |||||
 Sbjct: 5383402 cattaattttgaattaatt 5383420

Score = 103 bits (52), Expect = 5e-19
 Identities = 64/68 (94%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 10156242 aacgcttttatcccattaggtgggatcggctacatggatcaacttccgccataatgttcta
 10156183

Query: 1703 tcaagtac 1710
 |||||
 Sbjct: 10156182 tcaagtac 10156175

Score = 99.6 bits (50), Expect = 8e-18
 Identities = 77/86 (89%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatTTTtagtgTTatatttagtgaaattaattatTTTtataacataa
5221

|||||
Sbjct: 2434277 taaatatacattaaaaatTTTtagtgTTatataataacgacattaattatTTTtataaatataa
2434218

Query: 5222 ttgatgtattagttcagttggTTaga 5247

|| |
Sbjct: 2434217 ttaagttattagttcagttggTTaga 2434192

Score = 99.6 bits (50), Expect = 8e-18
Identities = 95/110 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgTTacaaaatTTTattatctaaatTTTgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 10499947 aaaatgaattgTTataaaaatTTTattatgtaaatttacatgtgcattaaatatacattaga
10500006

Query: 5177 aatTTTtagtgTTatatttagtgaaattaattatTTTtataacataaTTgat 5226

|||||
Sbjct: 10500007 aatTTTaattattataataacaattatTTTtataaatataaTTgat 10500056

Score = 99.6 bits (50), Expect = 8e-18
Identities = 80/90 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatTTTtagtgTTatatttagtgaaattaattatTTTtataacataa
5221

|||||
Sbjct: 35949657 taaatatacattagacattTTTtagtgTTatataataacgacattaattatTTTtataacataa
35949598

Query: 5222 ttgatgtattagttcagttggTTagagcat 5251

||
Sbjct: 35949597 ttatcttattagtttagttggTTagagcat 35949568

Score = 97.6 bits (49), Expect = 3e-17
Identities = 52/53 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataa 1695
|||||
Sbjct: 2479966 aacgccttatcccactaggtggggctcggctacatggatcaacttccgtcataa 2480018

Score = 97.6 bits (49), Expect = 3e-17
Identities = 167/205 (81%), Gaps = 1/205 (0%)
Strand = Plus / Plus

Query: 5125 ttgttacaaaatttattatctaaatttgcacataaataacatt-agaaatttta
5183
|||||
Sbjct: 3647327 ttgtcacaaaacttattatctaaatttgcacataaataacattaaaaaaattta
3647386

Query: 5184 gtgttatatttagtgaaattaattattttataacataattgatgtattagttcagttggt
5243
|| |||||
Sbjct: 3647387 gtattatatataacaacattaattattttataatataagttgccctattagctcagttggt
3647446

Query: 5244 tagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatt
5303
|| || | || |||||
Sbjct: 3647447 taaagtgtcgtgctaataacacgaaagtcacaaatttgattcctgcttggactattaatt
3647506

Query: 5304 ttaaaattaatttgtaaaatatattt 5328
|||||
Sbjct: 3647507 ttaaaattaatttgtaaaagatatattt 3647531

Score = 97.6 bits (49), Expect = 3e-17
Identities = 93/107 (86%), Gaps = 3/107 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
|||||
Sbjct: 15574864 aaaattaattatcacaaaatttattatctaaatttgcacataaataacattaga
15574805

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataatt 5223
|||||
Sbjct: 15574804 aatttttagtgttatatata---acattatatttttataatataatt 15574761

Score = 97.6 bits (49), Expect = 3e-17
Identities = 100/116 (86%), Gaps = 2/116 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||||||||||| ||||||| ||||||| || || | ||||||||||||||
Sbjct: 16368479 aaaattaattgttacaaaatttattatataaaattt--atacatattaaatatacattaga
16368536

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
 ||||||| | |||||| || | |||||||||||||| || | ||||||| |||||
Sbjct: 16368537 aatttttaattattatataaaagtaattattaattattttttaataataattgatctatta
16368592

Score = 97.6 bits (49), Expect = 3e-17
Identities = 112/133 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||| | |||||||||||||| ||||||| |||| | ||||||||||||||
Sbjct: 24327780 aaaattaattatcacaaaatttattatttaaatttacatgcgcattaaatatacattaga
24327721

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 || |||||| |||| | || | |||| |||||||||||||||||| || || ||
Sbjct: 24327720 aaatttagtattatgtataacaacattatttattttataacataattagactatcagctc
24327661

Query: 5237 agttggtagagc 5249
 |||||||||||||
Sbjct: 24327660 agttggtagagc 24327648

Score = 97.6 bits (49), Expect = 3e-17
Identities = 128/153 (83%), Gaps = 1/153 (0%)
Strand = Plus / Plus

Query: 5121 ttaattgttacaaaatttatt-atctaaatttgcatgcacaataaatatacattagaaat
5179

||||| ||||||||| || ||||||| ||| || ||||||||| ||||
Sbjct: 27999586 ttaattgtcacaaaatttattttatttaaatttacatgtgcattaaatatacattaaaaat
27999645

Query: 5180 tttagtgttatatttagtgaaattaattattttataacataattgatgtattagttcagt
5239

||||| ||| || | ||||||||| ||||| ||||| |||||
Sbjct: 27999646 tttagtgttatgtatagcaacatgatttattttataatgtaattgacttattaattcagt
27999705

Query: 5240 tggttagagcattatgttaataatgtgaaagtc 5272

||||| || ||||||||| |||||||
Sbjct: 27999706 tggttagagtgtgtgttaataacctgaaagtc 27999738

Score = 95.7 bits (48), Expect = 1e-16
Identities = 111/132 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||| || ||||||||| ||||||| ||| || ||||||||| |||||
Sbjct: 9298279 aaaattaattatcacaaaatttattatttaaatttacatgagcattaaatatacattaga
9298338

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||| || ||||| || | ||||| ||||||||| ||||||| || |||||||
Sbjct: 9298339 aattttaattattatatataacaacattatttattttataatataaattgggtctattagttt
9298398

Query: 5237 agttgggtagag 5248

||| |||||||
Sbjct: 9298399 agtaggtagag 9298410

Score = 95.7 bits (48), Expect = 1e-16
Identities = 179/220 (81%), Gaps = 2/220 (0%)
Strand = Plus / Minus

Query: 5131 caaaatttattatctaaatttgcacataaatatacattagaaatttttagtggttat
5190

|||| ||||||| ||||||| ||||| ||| ||||||||| ||||| ||||||||| |||||
Sbjct: 27627989 caaattttattatgtaaatttacatgtacattaaatataaaattataaaatttttagtggttat
27627930

Sbjct: 39148162 atattatatatac-gacattaattattttataataactgacttattagttcagttggt
39148104

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

 ||||| | ||||| ||||| ||||| || || ||||| |||||
Sbjct: 32429198 aaaattaattgtcataaaaatttattatttaaatttacatgtgcattaaatatacattaga
32429257

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataa 5221

 || ||||| || | ||||| ||||| ||||| |||||
Sbjct: 32429258 aagtttagtggttatgtataacaacattattttattttataacataa 32429302

Score = 87.7 bits (44), Expect = 3e-14
Identities = 68/76 (89%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaaagggtttattcttaaatttgcttgag
5073

 ||||| ||||| ||||| ||||| || || ||||| || ||
Sbjct: 14390849 ataattttaataaactattttatgagtaaataaaagtcttcattcttaaatttgctttag
14390790

Query: 5074 ccctctcaagtccttg 5089

 ||||| |||||
Sbjct: 14390789 gcctctcaagtccttg 14390774

Score = 87.7 bits (44), Expect = 3e-14
Identities = 93/109 (85%), Gaps = 4/109 (3%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

 ||||| | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16410363 aaaattaattatcacaaaatttattatttaaatttacatgcacattaaatgcattaga
16410422

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225

 ||||| ||||| || ||||| ||||| ||||| ||||| |||||
Sbjct: 16410423 aattgtagtg----atatagtaacattattttattttataacctaattga 16410467

Score = 85.7 bits (43), Expect = 1e-13
Identities = 133/163 (81%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
 6737

|||||
 Sbjct: 8536806 atgcgacacatggaacatcgcttcgattgatctggttcttggatatattgttttgggtgtgg
 8536747

Query: 6738 atacgagaggagacatgacaacctttagaattttcttttcatttttgggttggggcaaatt
 6797

|||
 Sbjct: 8536746 atatgagaggagacaaaattacctttagaattttattttcttgtctaggttggggcagatc
 8536687

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatt 6840

|||||
 Sbjct: 8536686 attggcttgtgacatgatggtcaatatgcttcggttgcgcaatt 8536644

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 124/150 (82%), Gaps = 2/150 (1%)
 Strand = Plus / Plus

Query: 6682 gacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgtatac
 6741

|||||
 Sbjct: 20360662 gacacatggaacatctttttgattgacctgattctctcatatccatttcggtgtgtatac
 20360721

Query: 6742 gagaggagacatgacaacctttaga--atttcttttcatttttgggttggggcaaattct
 6799

|||||
 Sbjct: 20360722 gagaggatattggacgaccttagattattttttagaatttttgggtcagggcaaattcg
 20360781

Query: 6800 tggcttgtgacatggtgaccaacatgcttc 6829

|||
 Sbjct: 20360782 tggttcatgacattgtggccaacatgcttc 20360811

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 70/79 (88%)
 Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggtttattcttaaatgtgcttgag
 5073

|||||

Sbjct: 36144237 ataattttaataaagatattttatatataaataaaaatgtctcattcttaaatttgctttag
 36144296

Query: 5074 ccctctcaagtccttgagc 5092
 |||||
 Sbjct: 36144297 acctctcaagtccttgagc 36144315

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 107/129 (82%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 |||||
 Sbjct: 2840935 aaaattagatgttatataatttattatgtaaaatttatgcgtattaaataacattaga
 2840876

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |
 Sbjct: 2840875 aatttttagtggttatatatagcgacattagttattttttaataaattgacctattagctt
 2840816

Query: 5237 agttgggta 5245
 |||||
 Sbjct: 2840815 agttgggta 2840807

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 53/57 (92%)
 Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggtttattcttaaatttgctt
 5070
 |||||
 Sbjct: 16123816 ataattttaataaattattttatgagtaataaaaatgtctcattcttaaatttgctt
 16123760

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 134/165 (81%)
 Strand = Plus / Minus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
7101

|||||
Sbjct: 17646712 gttaattgtctcatgcactaagaatcgtatatcacatcaaccggactcaagaacatggtg
17646653

Query: 7102 agagtttgcctttttctgtatgtctttcatagccttggttaatactttgtataaacttc
7161

|||||
Sbjct: 17646652 agagttggtctttctttgtgcgtcttccatagcttggttaataatttctatataaacttg
17646593

Query: 7162 accaaatgtaatcactcttgcgacttctctccccctttggttgaa 7206
|||||
Sbjct: 17646592 gtcaaataatgattcttgcaacttctctccctctttagttgaa 17646548

Score = 79.8 bits (40), Expect = 7e-12
Identities = 73/84 (86%)
Strand = Plus / Minus

Query: 6713 ttcttggatatccattttggtgtgtatacgagaggagacatgacaacctttagaatttct
6772

|||||
Sbjct: 16794095 ttcttggatatccatttcggtgtgcatacgagaggagatatgacgacccttagtacttct
16794036

Query: 6773 tttcatttttgggttggggcaaat 6796
|||||
Sbjct: 16794035 ttcttttctaggttgggggaaat 16794012

Score = 79.8 bits (40), Expect = 7e-12
Identities = 67/76 (88%)
Strand = Plus / Minus

Query: 6580 aaaatatttaaatttgaaataatacaacaaaaattttaaaatacaaacaatatggcataa
6639

|||||
Sbjct: 16794249 aaaatatttaaatttgaattaatacaacaaaaatttaaaaaatacaaacaatatgacatac
16794190

Query: 6640 aattaatgttggttggc 6655
|||
Sbjct: 16794189 attgaacgttggttggc 16794174

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 94/112 (83%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtgTTtatatttagtgaaattaattattttataacataa
 5221
 |||||
 Sbjct: 29682424 taaatatacattataaaaatttattgTTtatataatgacattaattattttataatataa
 29682365

Query: 5222 ttgatgtattagttcagttggTTtagagcattatgTTaataatgtgaaagtca 5273
 ||
 Sbjct: 29682364 ttagcttattaattcagtttattagaacgTTtatgTTaataacgcgaaagtca 29682313

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 99/118 (83%), Gaps = 3/118 (2%)
 Strand = Plus / Plus

Query: 6883 tatacacaagatgtatgtagttcctatactcatggTgagcatgcttata---aacaacaa
 6939
 |||||
 Sbjct: 32829529 tatacataggatgtatgtaattcctattttcatggTgagcatgcttacaagcaacaacac
 32829588

Query: 6940 catgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
 6997
 |||||
 Sbjct: 32829589 catgacaacaaggcatgtgcactttttagaatttgtcacatttacaccacctttcatc
 32829646

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 88/104 (84%)
 Strand = Plus / Minus

Query: 5121 ttaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaatt
 5180
 |||||
 Sbjct: 38762385 ttaattattacaaaatttattatataaaatttacacgTTtattaaatatacattaaaaaat
 38762326

Query: 5181 ttagtgTTtatatttagtgaaattaattattttataacataattg 5224
 |||||
 Sbjct: 38762325 ttagtgTTtatataactacattaattattttataacgtaattg 38762282

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 102/123 (82%)
 Strand = Plus / Plus

Query: 5127 gttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtg
 5186
 Sbjct: 2841039 gttacaaaatttattatgtaaacttatatgtgtattaaatatacattaaaaattatagtg
 2841098

Query: 5187 ttatatatttagtgaaattaattattttataacataattgatgtattagttcagttgggttag
 5246
 Sbjct: 2841099 ttatatatatgacgtagttattttttaacataattagcttattagtttagttgggttag
 2841158

Query: 5247 agc 5249
 Sbjct: 2841159 agc 2841161

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 66/74 (89%), Gaps = 2/74 (2%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 Sbjct: 8522748 aaaattaattgtcacaa--tttattatttaaatttacatgcgcattaaatatacattata
 8522805

Query: 5177 aatttttagtggttat 5190
 Sbjct: 8522806 aatttttagtggttat 8522819

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 101/121 (83%), Gaps = 3/121 (2%)
 Strand = Plus / Minus

Query: 6884 atacacaagatgtatgtagttcctataactcatgggtgagcatgcttataaaca---acaac
 6940

Score = 75.8 bits (38), Expect = 1e-10

Identities = 48/50 (96%), Gaps = 1/50 (2%)
Strand = Plus / Plus

Query: 5291 tggatcattaattttaaatattgtgtaaaatatattttggaaaaaaa 5340
|||||
Sbjct: 2940376 tggatcattaattttaaatattgtgtaaaatat-ttttggaaaaaaa 2940424

Score = 75.8 bits (38), Expect = 1e-10
Identities = 53/58 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataataacatta
5174
|||||
Sbjct: 3386096 aaaattaattgtcataaaaatttattatttaaatttacatgcacattaataacatta
3386039

Score = 75.8 bits (38), Expect = 1e-10
Identities = 101/121 (83%), Gaps = 2/121 (1%)
Strand = Plus / Plus

Query: 7417 acaaacaccagtgataacaacaatgaacaacacacatgacaactacaaatcattaataa
7476
|||||
Sbjct: 26159285 acaaacacttagtaataacaacaacaacacacacatgaagattacaaatcgtgaaataa
26159344

Query: 7477 tacaattacaatcaaataatttggggaggggtcttcaaaacttgattcaagggttcattg
7536
|| |||
Sbjct: 26159345 taaaataacaatcaattaatttagg--gggggtcttcaaaacttgactcaagctttattg
26159402

Query: 7537 t 7537
|
Sbjct: 26159403 t 26159403

Score = 75.8 bits (38), Expect = 1e-10
Identities = 62/70 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 30645736 aaaattaattgccacaaaatttattatttaaatttacatgcgcattaaatatgcattaga
30645677

Query: 5177 aatttttagtg 5186

||| |||||
Sbjct: 30645676 aatgttagtg 30645667

Score = 73.8 bits (37), Expect = 5e-10
Identities = 118/145 (81%)
Strand = Plus / Minus

Query: 5205 attatattataacataattgatgtattagttcagttgggttagagcattatgttaataatg
5264

|||||
Sbjct: 8354097 attatattataatgtaattgattcattagctcagttgatttgagcgttggtgtaataatt
8354038

Query: 5265 tgaaagtcaaaagttcaattcttacttggatcattaattttaaattaatttgtaaaatat
5324

| ||||| | ||||| || ||| |||||
Sbjct: 8354037 taaaagtcatagcttcaatttttggttgagccattaattttaaattaatttagtcataaat
8353978

Query: 5325 atttttgaaaaaaaaattataaaaa 5349

||||| ||||| ||| |||||
Sbjct: 8353977 atttttaaaaaaaaattataaaaa 8353953

Score = 73.8 bits (37), Expect = 5e-10
Identities = 73/85 (85%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttatgaataaataaaagggttttattcttaaatttgcttgag
5073

|||||
Sbjct: 15050537 ataattttaataaattatatttatgagtaataaaagacctcattcttaaatttacttta
15050596

Query: 5074 ccctctcaagtccttgagccgcccc 5098

||||| ||||| |||||
Sbjct: 15050597 gtctctcaaataccttgagtcgcccc 15050621

Score = 73.8 bits (37), Expect = 5e-10
Identities = 46/49 (93%)
Strand = Plus / Minus

Query: 5282 attcttacttggatcattaattttaaattaatttgtaaaatatatTTTT 5330
||||| ||||||||||||||||||||| |||||||||
Sbjct: 15081106 attcttatttggatcattaattttaaattaatttcataaaatatatTTTT 15081058

Score = 73.8 bits (37), Expect = 5e-10
Identities = 79/93 (84%)
Strand = Plus / Plus

Query: 6561 aaattacaaacaatagaacaaaaatatttaaatttgaaataatacaacaaaaattttaaaa
6620
||||| ||||||||| ||||||| ||||||||| ||||| ||||| ||| |||
Sbjct: 15366694 aaattaccaacaatagaataaaaatatataaatttgaaagtatacaataaaaaattttaaa
15366753

Query: 6621 tacaaacaatatggcataaaaattaatgttggttg 6653
||||| | |||| || || ||| |||||
Sbjct: 15366754 tacaaagattatgacatgaagttaacgttggttg 15366786

Score = 73.8 bits (37), Expect = 5e-10
Identities = 79/93 (84%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcacataaaatatacattagaaatttttagtggttata
5191
||||||||||| ||||||| ||||| || ||||||| ||||||||| || | |||
Sbjct: 17847475 aaaatttattatttaaatttacatgcgcattaaatatgcattagaaattgtaataatatc
17847416

Query: 5192 tttagtgaattaattattttataacataattg 5224
| |||| | |||| |||||||||||||||||
Sbjct: 17847415 tatagtaacattatttattttataacataattg 17847383

Score = 73.8 bits (37), Expect = 5e-10
Identities = 49/53 (92%)
Strand = Plus / Plus

Query: 6421 agagttgaaatcctttgtatTTTTTTTTTTTgattattataatacataatt 6473
|||||
Sbjct: 18406209 agagttgaaatcctttgtatTTTTCATTTCATTGATTATTAATAACGTAATT
18406261

Score = 73.8 bits (37), Expect = 5e-10
Identities = 58/65 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 27999420 aaaattaattgtcacaaaatttattatttaaatttacatgcgtgttaaatacattaga
27999361

Query: 5177 aattt 5181
|||||
Sbjct: 27999360 aattt 27999356

Score = 73.8 bits (37), Expect = 5e-10
Identities = 101/121 (83%), Gaps = 1/121 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 30093708 aaaattaattgtcacaaaatttgttatttaaatttacatggtt-attaaatacattaaa
30093766

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 30093767 aattttaatatatatataataacattatttattttataataataacctaattagttc
30093826

Query: 5237 a 5237
|
Sbjct: 30093827 a 30093827

Score = 71.9 bits (36), Expect = 2e-09
Identities = 57/64 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||| ||||| ||||| ||||| ||| || ||||| |||||
 Sbjct: 7101264 aaaattaatgtcacaaaatttattatgtaaatttacatgtgcattaaatatacattaga
 7101323

Query: 5177 aatt 5180
 ||||
 Sbjct: 7101324 aatt 7101327

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 66/76 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 8069081 aaaattaattggttacaaaatttattatgcaaacttatatgtgtattaaatatacattaga
 8069022

Query: 5177 aatttttagtggttatat 5192
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 8069021 aatttttagtggttatat 8069006

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 51/56 (91%)
 Strand = Plus / Minus

Query: 5180 ttttagtggttatatttagtgaaattaattatattttataacataattgatgtattagtt 5235
 ||||| ||||| ||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 9710752 ttttagtattatataataaaaattaattatattttataacataattgatctattagtt
 9710697

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 66/76 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 14883993 aaaattaattggttacaaaatttattatataatcttatatgtgtattaaatatacattaga
 14884052

```
Query: 7136      ttgtttaatacttttgtataaaacttcaccaaagttaatcactcttgcgacttctctcccc
7195            ||||| | ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 20361121 ttgттааgта-тттгтаааасттggcaagatgтаатсаттгттатgacttctctccct
20361179
```

Score = 69.9 bits (35), Expect = 7e-09
Identities = 86/103 (83%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatcttttagtggttatatttagtgaaattaattattttataacataa
5221

||||| ||||| ||||| ||||| ||| || ||||| |||||
Sbjct: 11075299 taaatataatattagaatcttttagtattatatatagcgatgttaattatttttaacataa
11075240

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataatg 5264

|| | ||||| ||||| ||| || |||||
Sbjct: 11075239 ttaacctattagtttagttgggtggagtggtgtgtaataatg 11075197

Score = 69.9 bits (35), Expect = 7e-09
Identities = 78/91 (85%), Gaps = 1/91 (1%)
Strand = Plus / Minus

Query: 5134 aatttattatctaaatctgcacatgcacataaatacattagaaatcttagtggttatatt
5193

||||| ||||| ||||| ||||| ||||| ||||| ||| |||||
Sbjct: 14453305 aatttattatttaaatttacatgcgcaataaatacatta-aaaaatttagtggttatata
14453247

Query: 5194 tagtgaaattaattattttataacataattg 5224

|| | |||| ||||| ||||| |||||
Sbjct: 14453246 taacaacattatttattttataatataattg 14453216

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatctgcacatgcacataaatacattagaaatcttagtggtta
5189

||||| ||||| ||||| ||| ||| ||||| ||||| |||||
Sbjct: 18471507 acaaaatttattatgttaaatttatatgtacattcaatataaattagaaatcttagtggtta
18471448

Query: 5190 tat 5192

|||
Sbjct: 18471447 tat 18471445

Score = 69.9 bits (35), Expect = 7e-09
Identities = 74/87 (85%)
Strand = Plus / Minus

Query: 5254 tgттаатаатгтгааагтсaaaагттсааттсттactтggatcattaаттттаааттаат
5313

||||||| ||||||| | ||||| ||||||| | || ||||||||| |||||||
Sbjct: 18752694 tgттаатаacгтгааагттатаагттгattсттgcatgaatcattaаттттаааттаат
18752635

Query: 5314 ttgтаaaатататттттгaaaaаааа 5340

| ||||| ||||||| |||||||
Sbjct: 18752634 tcataaaacататтттттттаaaaaааа 18752608

Score = 69.9 bits (35), Expect = 7e-09
Identities = 44/47 (93%)
Strand = Plus / Plus

Query: 6881 cgtatacacaaгatгtatгtagттсctataactcatggгgagcatггс 6927

||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 24395115 cgtatacacaaгatгtatгtagттсттgtactcatгatгagcatггс 24395161

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Plus

Query: 5130 acaaaатттattatсtaaатттgcatгсacaaтаaaататаcattagaaатттtagтгта
5189

||||||| ||||||| || ||||||||| ||||| ||||||||| ||||
Sbjct: 27251163 acaaaатттattatгтаaатттатatгтаcaaaтаaaататаaaаттаaaатттtagтtатта
27251222

Query: 5190 tat 5192

|||
Sbjct: 27251223 tat 27251225

Score = 69.9 bits (35), Expect = 7e-09
Identities = 47/51 (92%)
Strand = Plus / Minus

Query: 5016 ааттттаатаaаттатттттatгaатаaaтаaaaаггттттattсттaaаттт 5066

||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 30642166 ааттттаатаaаттатттттатаaaтаaaтаaaaаггттттattгтттаaаттт 30642116

Score = 69.9 bits (35), Expect = 7e-09
Identities = 41/43 (95%)
Strand = Plus / Minus

```
Query: 5310      taatttgtaaaatatatTTTTGAAAAAAAAATTATAAAAAAAT 5352
                |||||
Sbjct: 36133425 taatttgtaaaacatatTTTTGAAAAAAAAATTATAAAAAAAT 36133383
```

Score = 67.9 bits (34), Expect = 3e-08
Identities = 55/62 (88%)
Strand = Plus / Plus

```
Query: 5289      cttggatcattaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAAATTATAAAA
5348
                |||||
Sbjct: 18701958 cttggaccattaatttttaaattaatcgtaaattatatTTTTTAAAAAAAAATTAAAAA
18702017
```

```
Query: 5349      aa 5350
                ||
Sbjct: 18702018 aa 18702019
```

Score = 65.9 bits (33), Expect = 1e-07
Identities = 102/125 (81%)
Strand = Plus / Minus

```
Query: 5117      aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
                |||||
Sbjct: 5383949 aaaattaattgttttaaaatttataataaaatttatatgtgtattaaatatatattaaa
5383890
```

```
Query: 5177      aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
                ||
Sbjct: 5383889 aaatttagtggttatatatatcgatgttaattagtttttaacataattgggtctattaattc
5383830
```

```
Query: 5237      agttg 5241
                |||||
Sbjct: 5383829 agttg 5383825
```

Score = 65.9 bits (33), Expect = 1e-07
Identities = 42/45 (93%)
Strand = Plus / Minus

Query: 5299 taatttttaaattaatttgtaaaatatatttttgaaaaaaaatta 5343
 |||||
Sbjct: 10267604 taatttttaaattaatttcgtaaaacatatatttgaaaaaaaatta 10267560

Score = 65.9 bits (33), Expect = 1e-07
Identities = 75/89 (84%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737
 |||||
Sbjct: 24393438 atgcgacacatgagacattgctttggttgaccggttctcagatatccattttggtgtgg
24393497

Query: 6738 atacgagaggagacatgacaacctttaga 6766
 |||||
Sbjct: 24393498 atacgagaggagataggacgacctttaga 24393526

Score = 65.9 bits (33), Expect = 1e-07
Identities = 42/45 (93%)
Strand = Plus / Plus

Query: 7248 attgccagattttgtgttttcttgagtaccaaattaattaactca 7292
 |||||
Sbjct: 32829814 attggcagattttgtgttttcttgagtaccgaattaattgactca 32829858

Score = 65.9 bits (33), Expect = 1e-07
Identities = 36/37 (97%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggtacatggatca 1682
 |||||
Sbjct: 35816808 gccttatcccactaggtgaggtcggtacatggatca 35816772

Score = 65.9 bits (33), Expect = 1e-07
Identities = 45/49 (91%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattatatttatgaataaataaaagggttttattctta 5061
|||||
Sbjct: 39116861 aataattttaataaactatattttataaataaataaaatattttattctta 39116813

Score = 63.9 bits (32), Expect = 4e-07
Identities = 41/44 (93%)
Strand = Plus / Plus

Query: 6393 tgcataattttatgttttatcattttttaagagttgaaatccttt 6436
|||||
Sbjct: 3334971 tgcataatttttgttttatcatttttaaaaagttgaaatccttt 3335014

Score = 63.9 bits (32), Expect = 4e-07
Identities = 41/44 (93%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaa 5338
|||||
Sbjct: 3385914 tcattaatttttaaattaatttcgtaaaacatatatttttaaaaaaaa 3385871

Score = 63.9 bits (32), Expect = 4e-07
Identities = 50/56 (89%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaa 5350
|||||
Sbjct: 3646997 tcattaatttttaaattaattcataaaacatatatttttgataaaaaaaaaataaaaaaa
3646942

Score = 63.9 bits (32), Expect = 4e-07
Identities = 59/68 (86%)
Strand = Plus / Minus

Query: 7299 ccatcgccagccaccatcccatgcgagagtcacttttcttggtggaatcttcctaagcta
7358
|||||

Sbjct: 16793494 ccatcgctcggccatcatcccatgcgagagtcatttttcttgcggaatctcgctgagcca
16793435

Query: 7359 attaattg 7366
 |||||||
Sbjct: 16793434 attaattg 16793427

Score = 63.9 bits (32), Expect = 4e-07
Identities = 89/108 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
 ||||||| | | ||||||| ||||| ||||| | | ||||| | |||||
Sbjct: 17133182 aaaattaattatcataaaatttattatttaaatttacatgcgcattaaatatgtactaga
17133241

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224
 |||| ||||| ||| | || | | |||| | ||||||| |||||
Sbjct: 17133242 aattgtagtgatatgtataataacattattttattttataacctaattg 17133289

Score = 63.9 bits (32), Expect = 4e-07
Identities = 56/64 (87%)
Strand = Plus / Minus

Query: 5123 aattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttt
5182
 ||||| ||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27946584 aattgtcacaaaatttattattcaaatttacatgcgcattaaatatgcattagaaatggt
27946525

Query: 5183 agtg 5186
 |||
Sbjct: 27946524 agtg 27946521

Score = 62.0 bits (31), Expect = 2e-06
Identities = 49/55 (89%)
Strand = Plus / Minus

Query: 5282 attcttacttgatcattaatttttaaattaatttgtaaaatatatttttgaaaaa 5336
 ||||||| ||||||| ||||||| ||||| ||||| ||||| |||||
Sbjct: 245927 attcttacttgaatcattaatttttaaattaatcgtaaagtataattttcaaaaa 245873

Score = 62.0 bits (31), Expect = 2e-06
Identities = 73/87 (83%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacataa
5221
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16005090 taaatataatagaaatTTtaattTTtatataatgatattaattatattatcctaa
16005149

Query: 5222 ttgatgtattagttcagttggtagag 5248
 ||| ||||| ||||| |||||
Sbjct: 16005150 ttggcctattagtttagtttagtagag 16005176

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataaataacattagaaatTTtagtgTTa
5189
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 21460699 acaaaatttattatgtaaatttacatatacatgaaatataaattagaaactTTtagtgTTa
21460640

Query: 5190 tat 5192
 |||
Sbjct: 21460639 tat 21460637

Score = 60.0 bits (30), Expect = 7e-06
Identities = 105/130 (80%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4639157 aaaattaattgttacaaaatttattatataaacttatatttgtattaaatatatataaa
4639098

Query: 5177 aatTTtagtgTTtatTTtagtgaaattaattTTTTataacataattgatgtattagttc
5236
 || |||| | |||| | |||| ||||| ||||| || |||| | | |||||

Sbjct: 4639097 aaatttaatatatttatattgtgacattaattatTTTTtattataactaacctattagttg
4639038

Query: 5237 agttgggttag 5246
|||||
Sbjct: 4639037 agttgggttag 4639028

Score = 60.0 bits (30), Expect = 7e-06
Identities = 36/38 (94%)
Strand = Plus / Plus

Query: 3510 tgtgttattggaaatttaggcttggttatatttgatgct 3547
||||| |||||||
Sbjct: 8195227 tgtgtttttggaaatttaggcttgctatatatttgatgct 8195264

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatgga 1679
|||||
Sbjct: 9737359 gccttatcccactaggtgaggtcggctacatgga 9737392

Score = 60.0 bits (30), Expect = 7e-06
Identities = 42/46 (91%)
Strand = Plus / Minus

Query: 6428 aaatcctttgtatTTTTtattttatttgattattataataacataaatt 6473
||||| ||||| | |||||||
Sbjct: 15061567 aaatcctttctatTTTTcaattttatttgattattaaaataacataaatt 15061522

Score = 60.0 bits (30), Expect = 7e-06
Identities = 54/62 (87%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattagttcagttgggttagagcattatgttaatt
5260
|||| |||||||
Sbjct: 15811429 attattttattttataacataattgattcattagtttaattgggttagaacattgtgataat
15811370

Query: 5261 aa 5262
 ||
Sbjct: 15811369 aa 15811368

Score = 60.0 bits (30), Expect = 7e-06
Identities = 36/38 (94%)
Strand = Plus / Plus

Query: 6429 aatcctttgtatTTTTatTTTatTTtgattattataata 6466
 |||||
Sbjct: 20598262 aatcctttgtatTTTcatTTTatTTtgattattaaaata 20598299

Score = 60.0 bits (30), Expect = 7e-06
Identities = 36/38 (94%)
Strand = Plus / Plus

Query: 6429 aatcctttgtatTTTTatTTTatTTtgattattataata 6466
 |||||
Sbjct: 20610902 aatcctttgtatTTTcatTTTatTTtgattattaaaata 20610939

Score = 58.0 bits (29), Expect = 3e-05
Identities = 32/33 (96%)
Strand = Plus / Plus

Query: 5308 attaatTTgtaaaatatTTTTgaaaaaaaaa 5340
 |||||
Sbjct: 3386715 attaatTTgtaaaacatatTTTTgaaaaaaaaa 3386747

Score = 58.0 bits (29), Expect = 3e-05
Identities = 38/41 (92%)
Strand = Plus / Minus

Query: 5296 catTAatTTTaaattaattTgtaaaatatTTTTgaaaaa 5336
 |||||
Sbjct: 7101107 catTAatTTTaaattaattcataaaatatTTTTtaaaaaa 7101067

Score = 58.0 bits (29), Expect = 3e-05
Identities = 29/29 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggc 1671
|||||||
Sbjct: 10768515 aacgccttatcccactaggtggggtcggc 10768487

Score = 58.0 bits (29), Expect = 3e-05
Identities = 32/33 (96%)
Strand = Plus / Plus

Query: 6438 tattttttattttatttgattattataatacata 6470
|||||||
Sbjct: 15366604 tattttttattttatttgattattataatacata 15366636

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Plus

Query: 5301 attttaaattaatttgtaaaatatatttttgaaaaaa 5337
|||||||
Sbjct: 16005220 attttaaattaatttgtaaaatatatttttgaaaaaa 16005256

Score = 58.0 bits (29), Expect = 3e-05
Identities = 53/61 (86%)
Strand = Plus / Minus

Query: 5130 acaaaaatttattatctaaatttgcacataataacattagaaatttttagtggtta
5189
|||||||
Sbjct: 27802161 acaaaaatttattatgtaaaatttaaatatacattaaatataaaatttttagtggtta
27802102

Query: 5190 t 5190
|
Sbjct: 27802101 t 27802101

Score = 58.0 bits (29), Expect = 3e-05
Identities = 32/33 (96%)

Strand = Plus / Plus

Query: 7308 gccaccatcccatgcgagagtccactttttcttg 7340
|||||
Sbjct: 31948204 gccaccatcccatgcgagagtccactttttcttg 31948236

Score = 58.0 bits (29), Expect = 3e-05
Identities = 53/60 (88%), Gaps = 2/60 (3%)
Strand = Plus / Plus

Query: 5564 aaaaacaagtaataaaaaaa--ctatgaaccaaataagagtaattttataactattttatat
5621
|||||
Sbjct: 38295716 aaaaacaagtaataaaaaaaactatgtatcaaagtaaagtaattttaaaactattttatat
38295775

Score = 56.0 bits (28), Expect = 1e-04
Identities = 75/91 (82%), Gaps = 6/91 (6%)
Strand = Plus / Minus

Query: 6883 tatacacaagatgtatgtagttcctatactcatgggtgagcatgctt-----ataaaca
6936
|||||
Sbjct: 15060621 tatacacaagattcatatagttcctatactcatgggtgagcatgtttttcacaagcagcaa
15060562

Query: 6937 caacatgagaacaaaacatgtgcattttttg 6967
|||||
Sbjct: 15060561 caacatgagaacaagacatgtgcactttttg 15060531

Score = 56.0 bits (28), Expect = 1e-04
Identities = 49/56 (87%)
Strand = Plus / Plus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtccactttttcttggtggaatct 7348
|||||
Sbjct: 15367407 gtgtcccatcgctcggtcaccatcccatgcaagaaaccattttttcttggtggaatct
15367462

Score = 56.0 bits (28), Expect = 1e-04

Identities = 31/32 (96%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 |||||
Sbjct: 16368387 aaaattaattgttacaaaatttattatgtaaa 16368356

Score = 56.0 bits (28), Expect = 1e-04
Identities = 35/36 (97%), Gaps = 1/36 (2%)
Strand = Plus / Minus

Query: 2423 tctgcaaaaagcatgcatct-cggcgctatctcttg 2457
 |||||
Sbjct: 30703911 tctgcaaaaagcatgcatctacggcgctatctcttg 30703876

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Plus

Query: 6137 cgatttcttaattacatttttttatacatttagaaattggtttc 6180
 |||||
Sbjct: 31947082 cgatttcttattttatatttttttatatgttagaaattggtttc 31947125

Score = 56.0 bits (28), Expect = 1e-04
Identities = 92/112 (82%), Gaps = 1/112 (0%)
Strand = Plus / Plus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
7101
 |||||
Sbjct: 32829687 gttaattgtctcatggactaagaatcgtgtgtcacatcgatcaaactcaagaagaatatg
32829746

Query: 7102 agagtttgcctttttctgtatgtctttcatagccttgtttaatacttttgta 7153
 |||||
Sbjct: 32829747 atag-ttatctttctctgtgtgtcttctatagccttgtttagtacttatgta 32829797

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaattt 5151
 |||||
Sbjct: 1226454 aaaattaattggtataaaaatttattatataaaattt 1226420

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatattttt 5330
 |||||
Sbjct: 7669262 cattaatttttaaattatttcgtaaaatatattttt 7669228

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 5293 gatcattaatttttaaattaatttgtaaaata 5323
 |||||
Sbjct: 9122670 gatcattaatttttaaattatttttgtaaaata 9122640

Score = 54.0 bits (27), Expect = 4e-04
Identities = 57/67 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 11002130 aaaattaattggtataaaaatttattatataaaacttatatgtgtattaaatatattaga
11002071

Query: 5177 aatttta 5183
 |||||
Sbjct: 11002070 aatttta 11002064

Score = 54.0 bits (27), Expect = 4e-04
Identities = 89/106 (83%), Gaps = 4/106 (3%)
Strand = Plus / Plus

Query: 7191 tcccccttttggttgaacaatgcattacacc-tagtatagggttgattttaccaacacac--
 7247
 |||| |||| |||||||||||||||||||| ||| ||| |||||||||||| | |||||
 Sbjct: 15367286 tccctcttttggttgaacaatgcattacaccatag-atatggttgattttactagcacactt
 15367344

Query: 7248 attgccagattttgtgttttcttgagtaccaaattaattaactcag 7293
 |||| | |||| || |||||||||||||||||||| |||||||
 Sbjct: 15367345 attgataaatttcttgaattcttgagtaccaaattaatcaactcag 15367390

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 55/63 (87%), Gaps = 1/63 (1%)
 Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataaataacattagaaatttttagtggtta
 5189
 |||||||||||||| |||||| ||| ||| |||||||| |||| ||| |||||||||
 Sbjct: 17372571 acaaaatttattatgtaaatttacatatacattaaatataaatta-aaaatttagtggtta
 17372629

Query: 5190 tat 5192
 |||
 Sbjct: 17372630 tat 17372632

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 36/39 (92%)
 Strand = Plus / Plus

Query: 6414 ttttttaagagttgaaatcctttgtatttttattttatt 6452
 ||||| ||||| ||||||||||||||||||||
 Sbjct: 17804892 tttttcaagagtgaatcctttgtatttttattttatt 17804930

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 58/67 (86%), Gaps = 1/67 (1%)
 Strand = Plus / Minus

Query: 5566 aaacaagtaataaaaaaact-atgaaccaaataagagtaattttataactattttatatgtc
 5624
 |||||||||||||| || ||| | |||||||| || ||||| |||||||||||||
 Sbjct: 29980878 aaacaagtaataaaaaaattatgtatcaaaataggatagttttaaaactattttatatgtt
 29980819

Query: 5625 atgggtt 5631
 |||||
 Sbjct: 29980818 atgggtt 29980812

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 54/63 (85%)
 Strand = Plus / Minus

Query: 5277 gttcaattcttacttggatcattaatttttaaattaatttgtaaaatatatTTTTGAAAA
 5336
 |||||
 Sbjct: 30652064 gttcaattcttgctgggacaattagtttttaaattaattcAAAATTATATTTTTGAAAA
 30652005

Query: 5337 aaa 5339
 |||
 Sbjct: 30652004 aaa 30652002

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 33/35 (94%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 |||||
 Sbjct: 31135951 aaaattaattgtcataaaaatttattatctaaattt 31135917

Score = 52.0 bits (26), Expect = 0.002
 Identities = 59/70 (84%)
 Strand = Plus / Plus

Query: 6586 tttaaatttgaaataataacaacaaaaattttaaaatacaacaatatggcataaaattaa
 6645
 |||||
 Sbjct: 1182820 tttaaatttaaattaataacaacattttacaaatacaataatgatatatatttaa
 1182879

Query: 6646 tgttgttggc 6655
 |||||
 Sbjct: 1182880 tgttgttggc 1182889

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatattt 5329
|||||||
Sbjct: 8068907 cattaatttttaaattatttttgtaaaacatatattt 8068874

Score = 52.0 bits (26), Expect = 0.002
Identities = 53/62 (85%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
|||||||
Sbjct: 9710951 taaatataatataaaaaattttaattattatatataataataataattattttataacataa
9711010

Query: 5222 tt 5223
||
Sbjct: 9711011 tt 9711012

Score = 52.0 bits (26), Expect = 0.002
Identities = 167/214 (78%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||||
Sbjct: 11002229 aaaattaattggttataaaaatttattatgcaaacttatatgtgtattaaatgtgcattata
11002288

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||||
Sbjct: 11002289 aatttttagtggtgtatatatcgatgataattatttttcagcataattgggtctattagatc
11002348

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|
Sbjct: 11002349 aattgggttaaaacggtgtgtctaataatgcgaaagtcacatgttcgagatttgcattggact
11002408

Query: 5297 attaatTTTtaaattaatttGtaaaatatattttt 5330
 |||||
Sbjct: 11002409 attaatTTTtaaattatttcataaaatatattttt 11002442

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Plus

Query: 7309 ccaccatcccatgCGagagtcCacttttct 7338
 |||||
Sbjct: 18407129 ccaccatcccatgtgagagtcCacttttct 18407158

Score = 52.0 bits (26), Expect = 0.002
Identities = 44/50 (88%)
Strand = Plus / Plus

Query: 7189 tctccccctttggttgaacaatgcattacacctagtataggttgatttta 7238
 |||||
Sbjct: 20598976 tctccctctttggatgaacaatgcattacaacttatatatgttgatttta 20599025

Score = 52.0 bits (26), Expect = 0.002
Identities = 35/38 (92%)
Strand = Plus / Plus

Query: 6433 ctttgtattttttattttatttgattattataataacata 6470
 |||||
Sbjct: 24393189 ctttttattttcattttatttgattattaaaataacata 24393226

Score = 52.0 bits (26), Expect = 0.002
Identities = 35/38 (92%)
Strand = Plus / Plus

Query: 7184 acttctctccccctttggttgaacaatgcattacacct 7221
 |||||
Sbjct: 24396817 acttctctcccttttttgttgaacaatgcattacacct 24396854

Score = 52.0 bits (26), Expect = 0.002
Identities = 47/54 (87%)

Strand = Plus / Minus

Query: 5201 attaattatTTTTataacataattgatgtattagttcagttgggttagagcattat 5254
 ||||| ||||||||||||| ||||||||| ||||||||| ||||||||||| |||||||||||
 Sbjct: 29599218 attatTTTatTTTTataatgtaattgattcattagtttagttgggtttgagcattat
 29599165

Score = 52.0 bits (26), Expect = 0.002
 Identities = 118/146 (80%), Gaps = 2/146 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||| ||| ||||||||||||||| ||||||| || | ||| ||||| |||||
 Sbjct: 36314654 aaaattaattattataaaaatttattatataaaatttatatata-tatatatatattaga
 36314712

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
 5236
 ||||||| | ||||||| || | ||||||||||||||| ||| ||||||||| ||||| |
 Sbjct: 36314713 aatttttaattatatataacaatattaattatTTT-taatataattgacctattaactt
 36314771

Query: 5237 agttgggttagagcattatgttaataa 5262
 ||||||||||| ||||| |||||||
 Sbjct: 36314772 agttgggttagaatattatattaataa 36314797

Score = 50.1 bits (25), Expect = 0.007
 Identities = 28/29 (96%)
 Strand = Plus / Plus

Query: 3443 agagccttgccatagttaatgtatggttc 3471
 ||||||| |||||||||||||||||||||
 Sbjct: 8195177 agagccctgccatagttaatgtatggttc 8195205

Score = 50.1 bits (25), Expect = 0.007
 Identities = 58/69 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||| ||||||||||||| ||||| || ||| | | ||||||||||||| ||

Sbjct: 14883899 aaaattaattgtttcaaaattttatttaggttaaacttatatgaatattaaatatacatataaa
14883840

Query: 5177 aatttttagt 5185
| |||||
Sbjct: 14883839 aatttttagt 14883831

Score = 50.1 bits (25), Expect = 0.007
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 6621 tacaacaatatggcataaaaattaatgttggctgagc 6661
||||||| |||||
Sbjct: 17647186 tacaacaatacaacataaaaattaatgttggctgagc 17647146

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
||||||| |||||
Sbjct: 17834951 gccttatcccactaagtgaggctgactacatggatca 17834987

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 7084 gaactcaagaacaatgtgagagttt 7108
|||||||
Sbjct: 20598878 gaactcaagaacaatgtgagagttt 20598902

Score = 48.1 bits (24), Expect = 0.026
Identities = 63/76 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcacataaatatacatataga
5176
||||||| |||||
Sbjct: 2366658 aaaattaattatcataaaattttattatataaaacttatatgtgtattaaatatacatataaa
2366599

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattg 5156
 ||||||| | ||||||| ||||||| |||
Sbjct: 16369349 aaaattaattatcacaaaatttattatttaatttacattg 16369388

Score = 48.1 bits (24), Expect = 0.026
Identities = 69/84 (82%)
Strand = Plus / Plus

Query: 5162 taaataacattagaaatttttagtggttatatttagtgaaattaatttttataacataa
5221
 ||||||| ||| ||| ||||||| ||| ||| ||||| ||||| ||| |||
Sbjct: 17409969 taaataaaattaaaaatttagtggttatataacgatattaaatatttttaaataaa
17410028

Query: 5222 ttgatgtattagttcagttggtta 5245
 || || | ||||||| |||||||
Sbjct: 17410029 ttaatttggttagttcaattggtta 17410052

Score = 48.1 bits (24), Expect = 0.026
Identities = 40/44 (90%), Gaps = 1/44 (2%)
Strand = Plus / Plus

Query: 6399 ttttatgttttatcatttttt-aagagttgaaatcctttgtatt 6441
 |||| ||||||| ||||| ||||||| |||||||
Sbjct: 18405859 tttttggttttatcctttttgaagagttgaaatcctttgtatt 18405902

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 5314 ttgtaaaatatatttttgaaaaaaaaaat 5341
 ||||||| ||||||| ||||||| |||||||
Sbjct: 34595265 ttgtaaattatatatttttgaaaaaaaaaat 34595238

Score = 48.1 bits (24), Expect = 0.026
Identities = 54/64 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

```

          |||||
Sbjct: 36501741 aaaattaattgtctcaaaatttattatgtaaatctacatgttcggttaaataacattaaa
36501800

```

```

Query: 5177      aatt 5180
          |||
Sbjct: 36501801 aatt 36501804

```

Score = 48.1 bits (24), Expect = 0.026
 Identities = 54/64 (84%)
 Strand = Plus / Plus

```

Query: 5117      aaaattaattgtttacaaaatttattatctaaatttgcacacataaataacattaga
5176
          |||||
Sbjct: 36501813 aaaattaattgtctcaaaatttattatgtaaatctacatgtgcggttaaataacattaaa
36501872

```

```

Query: 5177      aatt 5180
          |||
Sbjct: 36501873 aatt 36501876

```

Score = 48.1 bits (24), Expect = 0.026
 Identities = 45/52 (86%)
 Strand = Plus / Plus

```

Query: 5165      atatacattagaaatttttagtggttatatttagtgaaattaattattttataa 5216
          |||||
Sbjct: 36703821 atatacattagaaattgttagtgatgtatagtaacattatttattttataa 36703872

```

Score = 46.1 bits (23), Expect = 0.10
 Identities = 23/23 (100%)
 Strand = Plus / Minus

```

Query: 6306      ttttttggttattaattgtctata 6328
          |||||
Sbjct: 1210950 ttttttggttattaattgtctata 1210928

```

Score = 46.1 bits (23), Expect = 0.10
 Identities = 23/23 (100%)

Strand = Plus / Plus

```
Query: 5331      gaaaaaaaaattataaaaaaatg 5353
              |||||||||||||||||||
Sbjct: 5254440  gaaaaaaaaattataaaaaaatg 5254462
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

```
Query: 1647      ccttatcccactaggtggggtcggcta 1673
              ||||||||||||||| |||||||
Sbjct: 8281891  ccttatcccactaggtgaggtcggcta 8281917
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 59/71 (83%)
Strand = Plus / Minus

```
Query: 5162      taaatatacattagaaattttagtgttatatttagtgaaattaattattttataacataa
5221
              ||||||||||| ||||||| ||||| || | | ||||||| ||||| |||||||
Sbjct: 9122791  taaatatacattaatcatttttagtattatatataataatattaataattttttaacataa
9122732
```

```
Query: 5222      ttgatgtatta 5232
              || || |||||
Sbjct: 9122731  ttaatttatta 9122721
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

```
Query: 5201      attaattattttataacataatt 5223
              |||||||||||||||||||
Sbjct: 16005031  attaattattttataacataatt 16005009
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||||||||| ||| |||||||||
Sbjct: 16459768 cttattccactaggtgaggtcagctacatggatca 16459734

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 ||||| | ||||||||| |||||||
Sbjct: 16794266 acaagttaaattgaactaaaatatttaaatt 16794236

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 6486 aattgaaattaaaaaatatatatttaa 6512
 ||||||||| ||||||||| |||
Sbjct: 16953697 aattgaaattaaaaaatatataattaa 16953723

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaca 5570
 ||||||||| |||||||||
Sbjct: 17115207 ttttttttaaaaaaaaaaaaaaca 17115229

Score = 46.1 bits (23), Expect = 0.10
Identities = 90/112 (80%), Gaps = 4/112 (3%)
Strand = Plus / Plus

Query: 6266 ttttttttgttttgttttaaaattgtttgatttttatttttttgttattaattgtct
6325
 ||||| ||||| ||||||||| ||| ||||| || ||||| |
Sbjct: 18405746 ttttttcttgtttttttttaaaattgtt----tttgcattttttctttcttaattattt
18405801

Query: 6326 atatttggtgttctgtttaaattgaaaacaatattttttcatatgttggtta 6377

```

      ||||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18405802 atatttatgtgtgtgtttaaacggaataatattttgtatatgtagtta 18405853

```

Score = 46.1 bits (23), Expect = 0.10
Identities = 35/39 (89%)
Strand = Plus / Minus

```

Query: 5546      actttttttttaaaaaaaaaaaaaacaagtaataaaaaact 5584
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 22899452 actttttttttaaaaaaaaaaaaaagtaaaagaaaact 22899414

```

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

```

Query: 6055      ataataaaaaaaaaattaattatt 6077
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36136638 ataataaaaaaaaaattaattatt 36136660

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```

Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2036874 ctttttttttaaaaaaaaaaaaaa 2036895

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```

Query: 3890      tgtaaaaatgatttttttttaaa 3911
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2658283 tgtaaaaatgatttttttttaaa 2658304

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
 ||||||||||||||||||||
Sbjct: 7768981 aaattaaaaaatatatatttaa 7769002

Score = 44.1 bits (22), Expect = 0.41
Identities = 49/58 (84%)
Strand = Plus / Plus

Query: 3614 tggatgaactgggtattttctaaatccaaaactaacaatagtgaggaatgcattaaaaaaaa
3671
 ||||| ||||| | |||||||||||||| |||| | ||||||| | ||| |||||
Sbjct: 8195372 tggatggactggcagttctaaatccaaaattaacgattgtgaggaaggattgaaaaaa
8195429

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 11054778 ctttttttttaaaaaaaaaaaaaa 11054799

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 11630832 ctttttttttaaaaaaaaaaaaaa 11630811

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||||
Sbjct: 17252493 acttttttttaaaaaaaaaaaaaa 17252472

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                |||
Sbjct: 22398547 ctttttttttaaaaaaaaaaaaaa 22398526
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 6491      aaattaaaaaatatatatttaa 6512
                |||
Sbjct: 24254713 aaattaaaaaatatatatttaa 24254692
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 6266      tttttttttgttttgttttaaa 6287
                |||
Sbjct: 26683968 tttttttttgttttgttttaaa 26683989
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                |||
Sbjct: 27054125 ctttttttttaaaaaaaaaaaaaa 27054104
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5545      aacttttttttaaaaaaaaaaaaaa 5566
                |||
```

Sbjct: 27577450 aactttttttttaaaaaaaaaa 27577471

Score = 44.1 bits (22), Expect = 0.41
Identities = 52/62 (83%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattagttcagttggttagagcattatgttaat
5260

|||| |||||||||||| |||||| ||||| | |||||||||||||| || || ||||
Sbjct: 27946485 attattttattttataacgtaattgaatcattagcttagttggttagagcgttgtgataat
27946426

Query: 5261 aa 5262
 ||
Sbjct: 27946425 aa 27946424

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 6260 attgcttttttttttgttttgtttta 6285
 |||||||||||||||||||| |||||
Sbjct: 27959324 attgcttttttttttgttttatttta 27959299

Score = 44.1 bits (22), Expect = 0.41
Identities = 56/66 (84%), Gaps = 1/66 (1%)
Strand = Plus / Minus

Query: 5162 taaataatacattagaaaatttttagtggtt-atatttagtgaaattaattattttataacata
5220

|||| | | ||| |||||||||| || |||| | | |||||||||| || ||||
Sbjct: 31135917 taaatgtatatataaaaatttttagtatttatatatagcgacattaattattttacaatata
31135858

Query: 5221 attgat 5226
 |||||
Sbjct: 31135857 attgat 31135852

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)

Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 33876081 ctttttttttaaaaaaaaaaaaaa 33876060
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 34957481 ctttttttttaaaaaaaaaaaaaa 34957502
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 36083801 ctttttttttaaaaaaaaaaaaaa 36083780
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 38196574 ctttttttttaaaaaaaaaaaaaa 38196595
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 205867   ttttttttttaaaaaaaaaaaaaa 205887
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 890006 aacttttttttaaaaaaaaaa 890026

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 1107164 ttttttttaaaaaaaaaa 1107144

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 1869237 ttttttttaaaaaaaaaa 1869217

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 1869222 ttttttttaaaaaaaaaa 1869242

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6485 taattgaaattaaaaaatatatatt 6509
 ||||| |||||
Sbjct: 1896441 taattgaaagtaaaaaaatatatatt 1896465

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaacaagtaataaaaa 5581
 ||||| |||||||||||||||| |||||
Sbjct: 2413455 ttttttttaaaaaaaaaaaaaacaagagataaaaa 2413423

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 4157807 ttttttttaaaaaaaaaaaaaa 4157827

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaag 5572
 ||||| ||||||||||||||||
Sbjct: 4339436 ttttttttaaaaaaaaaaaaaacaag 4339412

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 4339437 ttttttttaaaaaaaaaaaaaa 4339417

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6298 tttttattttttttgttattaattg 6322
 ||||| ||||||||||||||||
Sbjct: 6193618 tttttttttttttgttattaattg 6193594

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 6648467 tttttttttaaaaaaaaaaaaaa 6648487

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 7637787 tttttttttaaaaaaaaaaaaaa 7637767

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 2580 taaataatatatttttttcttt 2600
 ||||||||||||||||||
Sbjct: 8787069 taaataatatatttttttcttt 8787089

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4914 tctaattttgtcatttttttc 4934
 ||||||||||||||||||
Sbjct: 9166536 tctaattttgtcatttttttc 9166556

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 9627463 tttttttttaaaaaaaaaaaaaa 9627443
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

```
Query: 1654      ccactaggtggggtcggctacatggatca 1682
                ||||||||||| ||||||||||| |||||
Sbjct: 11181646 ccactaggtgaggtcggctacatagatca 11181618
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5549      ttttttttaaaaaaaaaaaaaaac 5569
                |||||||||||||||||||
Sbjct: 11639600 ttttttttaaaaaaaaaaaaaaac 11639580
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 4788      taataattaataagtaataat 4808
                |||||||||||||||||||
Sbjct: 14433575 taataattaataagtaataat 14433595
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 14852997 tttttttttaaaaaaaaaaaaaa 14853017
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 16218421 tttttttttaaaaaaaaaaaaaa 16218441

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 2574 aatttgtaaataatatTTTTTTTct 2598
 ||||| |||||
Sbjct: 16972393 aatttataaataatatTTTTTTTct 16972369

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 17200454 tttttttttaaaaaaaaaaaaaa 17200434

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 17933510 tttttttttaaaaaaaaaaaaaa 17933490

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5201 attaattatTTTtataacataattgatgtattag 5233
 ||||| ||||| ||||| |||||
Sbjct: 20949863 attatTTtattTTtataacgtaattgatttattag 20949895

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 21851095 ctttttttttaaaaaaaaaaaaaa 21851075

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6990 ctttcatctagcttgaccatgaaat 7014
|||||
Sbjct: 24396626 ctttcatctagcttgaccgtgaaat 24396650

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 24555217 ttttttttttaaaaaaaaaaaaaa 24555197

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 24902498 ttttttttttaaaaaaaaaaaaaa 24902518

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5556 aaaaaaaaaaaaaacaagtaat 5576
 ||||||||||||||||||
Sbjct: 26139830 aaaaaaaaaaaaaacaagtaat 26139850

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5544 gaactttttttttaaaaaaaaaaaaa 5568
 ||||||||||||| |||||||||||||
Sbjct: 27224437 gaactttttttttaaaaaaaaaaaaa 27224413

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 5153 catgcacaataaatatacattagaaattt 5181
 ||||| || ||||||||||||||||
Sbjct: 27999550 catgcgcattaaatatacattagaaattt 27999578

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttta 6285
 ||||||||||||||||||
Sbjct: 28821037 ttttttttttgttttgtttta 28821017

Score = 42.1 bits (21), Expect = 1.6
Identities = 54/65 (83%)
Strand = Plus / Plus

Query: 2656 aaaacatggaattcatcctcaacatctctctcggttaacttatgaatcaagggttatcaaca
2715
 ||||| ||||||| || | ||||||||||||| || | ||||| | ||||| |||||
Sbjct: 31662377 aaaacacggaattcgtctttgacatctctctcggtgactcctgaatccaaggttaccaaca
31662436

Query: 2716 tacac 2720
 |||||

Sbjct: 31662437 tacac 31662441

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 32634650 tttttttttaaaaaaaaaaaaaa 32634630

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5317 taaaatatatTTTTGAAAAAAAAAAT 5341
||||| |||||
Sbjct: 32673425 taaaatgtatTTTTGAAAAAAAAAAT 32673449

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaattaattatt 6077
||||| |||||
Sbjct: 32859656 aaataataataaaaaattaattatt 32859680

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaattaattatt 6077
||||| |||||
Sbjct: 32871070 aaataataataaaaaattaattatt 32871094

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6264 cttttttttttgttttgtttt 6284
|||||||
Sbjct: 33526242 cttttttttttgttttgtttt 33526222

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 34213629 tttttttttaaaaaaaaaaaaaa 34213609

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 34213614 tttttttttaaaaaaaaaaaaaa 34213634

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 2210 gacccaagatatatttaaaccgtgtgacttg 2238
||||||| ||||| |||||
Sbjct: 34307571 gacccaagataacttaaaccatgtgacttg 34307599

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5327 ttttgaaaaaaaaaattataaaaaaa 5351
|||| |||||
Sbjct: 35067857 tttttaaaaaaaaaaattataaaaaaa 35067833

Score = 42.1 bits (21), Expect = 1.6

Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4880 tttttcttttatttttatttt 4900
|||||||
Sbjct: 35244521 tttttcttttatttttatttt 35244501

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 37323917 ttttttttaaaaaaaaaaaaaa 37323897

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 38054682 ttttttttaaaaaaaaaaaaaa 38054662

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5566
|||||||
Sbjct: 38461468 acttttttttaaaaaaaaaaaaaa 38461448

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4788 taataattaataagtaataat 4808
|||||||
Sbjct: 38823731 taataattaataagtaataat 38823751

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5540 tattgaacttttttttataaa 5559
 |||||
Sbjct: 177483 tattgaacttttttttataaa 177502

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttataaaaaaaaaaaaaaa 5571
 |||||
Sbjct: 1364614 tttttttataaaaaaaaaaaaaaa 1364591

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttataaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 1642183 tttttttataaaaaaaaaaaaaaa 1642164

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttataaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 2160749 tttttttataaaaaaaaaaaaaaa 2160730

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttataaaaaaaaaaaaaaa 5567
 |||||

Sbjct: 2413455 tttttttttaaaaaaaaaaaaaa 2413436

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5120 attaattggtacaaaatttattat 5143
 ||||| |||||
Sbjct: 2484954 attaattgttataaaaatttattat 2484931

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 2604383 ttttttttaaaaaaaaaaaaaa 2604364

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6261 ttgcttttttttttgttttgtttt 6284
 |||| | |||||
Sbjct: 2895388 ttgcttttttttttgttttgtttt 2895411

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 ||||| |||||
Sbjct: 3442313 ctttttttttaaaaaaaaaaaaaa 3442294

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6492 aattaaaaaatatatattta 6511
 |||||
Sbjct: 3501518 aattaaaaaatatatattta 3501499

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 4077447 ttttttttaaaaaaaaaaaaa 4077428

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6057 aataaaaaaaaaattaattat 6076
 |||||
Sbjct: 4279213 aataaaaaaaaaattaattat 4279232

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 4562106 ttttttttaaaaaaaaaaaaa 4562087

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 4562091 ttttttttaaaaaaaaaaaaa 4562110

Score = 40.1 bits (20), Expect = 6.4

Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
||||| ||||||||||||||||
Sbjct: 5210763 ttttttataaaaaaaaaaaaaaaca 5210786

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3895 aaatgatttttttttaaagt 3914
||||||||||||||||||
Sbjct: 5240239 aaatgatttttttttaaagt 5240220

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6269 ttttttgttttgttttaaaa 6288
||||||||||||||||||
Sbjct: 5262779 ttttttgttttgttttaaaa 5262760

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5564
||||||||||||||||||
Sbjct: 5349026 aacttttttttaaaaaaaaaa 5349045

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattatattat 5036
||||||||||||||||||
Sbjct: 5638538 aataattttaataaattatattat 5638515

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 6184069 tttttttttaaaaaaaaaaaaaa 6184088

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 1646 gccttatccactaggtggggtcggctacatggatc 1681
 |||||
Sbjct: 7091347 gccttatcccattaggtgaggtagggtacatggatc 7091312

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5539 ttattgaactttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 7339805 ttattgatattttttttaaaaaaaaaaaaaa 7339832

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6296 tatttttattttttttgtta 6315
 |||||
Sbjct: 7767052 tatttttattttttttgtta 7767071

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||

Sbjct: 7947760 tttttttttaaaaaaaaaa 7947741

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaa 5564
|||||||
Sbjct: 8025068 aactttttttttaaaaaaaaaa 8025049

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 348 catagaaaaagaggggaacaaaatt 371
|||||||
Sbjct: 8309590 catagaaaaagatggaacaaaatt 8309613

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5567
|||||||
Sbjct: 8653609 tttttttttaaaaaaaaaa 8653590

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaa 5351
|||||||
Sbjct: 9726984 aaaaaaaaaattataaaaaa 9727003

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6438 tttttttttttttttttgatt 6457
 |||||
Sbjct: 9899005 tttttttttttttttttgatt 9899024

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6497 aaaaatatatatttaactga 6516
 |||||
Sbjct: 10141614 aaaaatatatatttaactga 10141595

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 10585444 ttttttttttgttttgtttt 10585425

Score = 40.1 bits (20), Expect = 6.4
Identities = 41/48 (85%)
Strand = Plus / Minus

Query: 5145 taaatttgcattgcacaataataacattagaaatttttagtggtatat 5192
 ||||| ||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10829011 taaatttacatatacatataataataacattaaaaattttaattatat 10828964

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5567
 |||||
Sbjct: 10852110 tttttttttaaaaaaaaaa 10852091

Score = 40.1 bits (20), Expect = 6.4

Identities = 32/36 (88%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatattttt 5330
 |||||||||||||||| || ||||| ||||||||
Sbjct: 11075722 tcattaatttttaaattatttcataaaaacatatatttt 11075757

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||||||||||||||||
Sbjct: 11482718 aaattaaaaaatatatattt 11482699

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5552 ttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||||||
Sbjct: 11539872 ttttaaaaaaaaaaaaaaaca 11539891

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
 |||||||||||||||||||
Sbjct: 11769554 ttttttttaaaaaaaaaaaacaca 11769531

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||||||||||||||||
Sbjct: 12663041 ttttttttaaaaaaaaaaaaa 12663060

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5333 aaaaaaaattataaaaaaat 5352
 ||||||||||||||||||
Sbjct: 14280514 aaaaaaaattataaaaaaat 14280495

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6492 aattaaaaaatatatattta 6511
 ||||||||||||||||||
Sbjct: 14938438 aattaaaaaatatatattta 14938419

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 ||||||||||||||||||
Sbjct: 15590572 aaattaaaaaatatatattt 15590553

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6434 tttgtatttttattttattt 6453
 ||||||||||||||||||
Sbjct: 15749538 tttgtatttttattttattt 15749557

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5553 tttaaaaaaaaaaaaaacaag 5572
 ||||||||||||||||||

Sbjct: 15804079 tttaaaaaaaaaaaaacaag 15804060

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5120 attaattgttacaaaatttattatctaaattt 5151
 ||||||| | ||||||| |||||||
Sbjct: 16005082 attaattgtcagaaaatttattatgttaaattt 16005051

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||| |||||||
Sbjct: 16028594 ttttttttaaaaaaaaaaaaaa 16028613

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6060 aaaaaaaaaattaattatttta 6079
 ||||||| |||||||
Sbjct: 17059568 aaaaaaaaaattaattatttta 17059549

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||| |||||||
Sbjct: 17200439 ttttttttaaaaaaaaaaaaaa 17200458

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 6281 ttttaaaattgtttgtatttttattttt 6308
 |||||
Sbjct: 17454543 ttttaaaattgtttgtatttttattttt 17454570

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 17882644 ttttttttaaaaaaaaaaaaaa 17882625

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 17933495 ttttttttaaaaaaaaaaaaaa 17933514

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5553 tttaaaaaaaaaaaaaacaagtaataaaa 5580
 |||||
Sbjct: 18516192 tttaaaaaaaaaaacacaagtaaaaaaa 18516165

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5554 tttaaaaaaaaaaaaaacaagtaata 5577
 |||||
Sbjct: 18551315 tttaaaaaaaaaaagaagtaata 18551338

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 21790106 ttttttttttgttttgtttt 21790087

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5536 ttgttattgaactttttttt 5555
 |||||
Sbjct: 22642872 ttgttattgaactttttttt 22642853

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaa 5567
 |||||
Sbjct: 24262344 ttttttttaaaaaaaaaaaa 24262363

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaa 5567
 |||||
Sbjct: 24379930 ttttttttaaaaaaaaaaaa 24379911

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5314 ttgtaaaatatatttttgaaaaaaaaat 5341
 ||||| || |||||
Sbjct: 24425414 ttgtaaaatatatttttgaaaaaaaaat 24425441

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 24555202 tttttttttaaaaaaaaaaaaaa 24555221

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 24584530 tttttttttaaaaaaaaaaaaaa 24584511

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 4877 aagtttttcttttatttttatttt 4900
 ||||||||||||| |||||||||
Sbjct: 24985314 aagtttttcttttatttttatttt 24985337

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 26725699 tttttttaaaaaaaaaaaaaa 26725718

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||

Sbjct: 28975739 tttttttttaaaaaaaaaaaaaa 28975758

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5325 attttttgaaaaaaaaattataaaaaaat 5352
||||| ||||||||||||| |||||||
Sbjct: 29269346 atttttaaaaaaaaaattataaaaaaat 29269373

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6447 tttatttgattattataata 6466
|||||||||||||||||
Sbjct: 30413405 tttatttgattattataata 30413386

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
|||||||||||||||||
Sbjct: 31950768 tttttttttaaaaaaaaaaaaaa 31950749

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
||||||||||||||||| |||||
Sbjct: 32644173 tttttttttaaaaaaaaaataaaca 32644196

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 33586945 aacttttttttataaaaaaaaaaaaa 33586922

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 34179402 ttttttttaaaaaaaaaaaaaa 34179421

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 34315936 ttttttttaaaacaaaaaaaaaca 34315913

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 34678663 ctttttttaaaaaaaaaaaaaa 34678644

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 34962798 ttttttttaaaaaaaaaaaaaa 34962779

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 35444028 ttttttttaaaaaaaaaaaaaa 35444009

Score = 40.1 bits (20), Expect = 6.4
Identities = 59/72 (81%)
Strand = Plus / Minus

Query: 5202 ttaattatttttataacataattgatgtattagttcagttggttagagcattatgttaata
5261
|||||
Sbjct: 36314470 ttaattattttttaataataattgggtctattagcttaattgattagaatattatcttaata
36314411

Query: 5262 atgtgaaagtca 5273
|||
Sbjct: 36314410 atgcaaaagtca 36314399

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5311 aatttgtaaaatatatTTTT 5330
|||||
Sbjct: 36518888 aatttgtaaaatatatTTTT 36518869

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 36566884 ttttttttaaaaaaaaaaaaaa 36566903

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 36851993 ctttttttttaaaaaaaaaaaa 36852012

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaacaag 5572
 |||||| ||||||||||||||||||
Sbjct: 37068220 tttttttcaaaaaaaaaaaaaacaag 37068197

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 37076411 ttttttttaaaaaaaaaaaaaaa 37076430

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaattta 5139
 |||||||||||||| ||||||
Sbjct: 37103215 aaaaattaattgttaaaaattta 37103192

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 37166400 ctttttttttaaaaaaaaaaaaa 37166419

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3893 aaaaatgattttttttaaat 3912
 ||||||||||||||||||
Sbjct: 37205365 aaaaatgattttttttaaat 37205384

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 37469907 cttttttttaaaaaaaaaa 37469926

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2582 aataatattttttttctttc 2601
 ||||||||||||||||||
Sbjct: 37593553 aataatattttttttctttc 37593572

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6495 taaaaaatatattttaact 6514
 ||||||||||||||||||
Sbjct: 38505949 taaaaaatatattttaact 38505930

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 38821011 cttttttttaaaaaaaaaa 38821030

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||||||||||||||| |||||
Sbjct: 38843358 tttttttttaaaaaaaaaataaaca 38843381

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaa 5566
 ||||||||||||||||| |||||
Sbjct: 39144114 cttttttttaaaaaaaaaaaaa 39144133

>[gb|CM000834.1](#)| Glycine max chromosome 1, whole genome shotgun sequence
Length = 55915595

Score = 1608 bits (811), Expect = 0.0
Identities = 814/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 7341143 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
7341084

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 7341083 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
7341024

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 7341023 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
7340964

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 7340963 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
7340904

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 7340903 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
7340844

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 7340843 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
7340784

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 7340783 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
7340724

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 7340723 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
7340664

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 7340663 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
7340604

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 7340603 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
7340544

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 7340543 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
7340484

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 7340483 cattccatataactccgatttgcttctgcttacgcgaaagccatgtgtttctagagctcgt
7340424

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 7340423 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
7340364

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 7340363 tctgcaaaaagcatgcatctcggcgctatctcttg 7340329

Score = 1608 bits (811), Expect = 0.0
Identities = 814/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 43438417 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
43438358

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 43438357 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
43438298

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 43438297 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
43438238

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctatatt
1882

|||||
Sbjct: 43438237 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctatatt
43438178

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 43438177 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
43438118

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 43438117 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
43438058

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 43438057 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
43437998

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 43437997 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
43437938

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 43437937 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
43437878

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 43437877 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
43437818

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 43437817 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
43437758

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 43437757 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
43437698

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 43437697 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
43437638

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 43437637 tctgcaaaaagcatgcatctcggcgctatctcttg 43437603

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 578560 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
578619

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 578620 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
578679

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 578680 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
578739

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgccccaaaccacctaaggtctattt
1882
|||||||
Sbjct: 578740 ctctcactacagagtctaccgggtcttctctctacatgccccaaaccacctaaggtctattt
578799

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||||
Sbjct: 578800 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
578859

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 578860 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
578919

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||||

Sbjct: 578920 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
 578979

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 578980 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 579039

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

|||||
 Sbjct: 579040 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 579099

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 579100 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 579159

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 579160 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 579219

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 579220 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 579279

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 579280 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
 579339

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 579340 tctgcaaaaagcatgcatctcggcgctatctcttg 579374

Score = 1592 bits (803), Expect = 0.0
 Identities = 812/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 7708036 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
7707977

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 7707976 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
7707917

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 7707916 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
7707857

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 7707856 ctccctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagtctattt
7707797

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
1942

|||||
Sbjct: 7707796 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
7707737

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 7707736 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
7707677

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 7707676 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
7707617

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 7707616 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
7707557

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 7707556 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
7707497

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 7707496 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
7707437

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 7707436 ataatatgggtctcctattttccctctgagttagaaaccctcatttcttttgttgaactta
7707377

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

|||||
Sbjct: 7707376 cattccatatactccgatttgcttctgcttaggcgaaagtcattgtgttctagagctcgt
7707317

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 7707316 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
7707257

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 7707256 tctgcaaaaagcatgcatctcggcgctatctcttg 7707222

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 6423833 aacgccttatcccactaggtggggtcggttacatggatcaacttccgccataatgttcta
6423774

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 6423773 tcaagtaccatactttctatccaaaccattaatttcgagatcctttttgataacccctctt
6423714

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 6423713 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
6423654

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 6423653 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
6423594

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttgcgtttcta
1942

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Sbjct: 6423593 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttgcgtttcta
6423534

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 6423533 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
6423474

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 6423473 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
6423414

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 6423413 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
6423354

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 6423353 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
6423294

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 6423293 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
6423234

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 6423233 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
6423174

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

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Sbjct: 6423173 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
6423114

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 6423113 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
6423054

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 6423053 tctgcaaaaagcatgcatctcggcgctatctcttg 6423019

Score = 1584 bits (799), Expect = 0.0

Identities = 811/815 (99%)

Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 27366217 aacgccttatctcactaggtggggtcggctacatggatcaacttccgccataatgttcta
27366276

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 27366277 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
27366336

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 27366337 atagtctttttgggtcttctctgcctcgaattgtttgttttctctccatctgggtctact
27366396

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 27366397 ctctcattacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
27366456

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 27366457 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
27366516

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 27366517 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27366576

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 27366577 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
27366636

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 27366637 cttaccacagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
27366696

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 27366697 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
27366756

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 27366757 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
27366816

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 27366817 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
27366876

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 27366877 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
27366936

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 27366937 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
27366996

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 26338145 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
26338204

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 26338205 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
26338264

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 26338265 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
26338324

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 26338325 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
26338384

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 26338385 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
26338444

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 26338445 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
26338504

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 26338505 acttttttctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
26338564

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 26338565 cttaccgcagtcgataaaaacattcccttttagcttgatcggtacctttgcatcacataac
26338624

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 26338625 acccctgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
26338684

Query: 2183 tcaattttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 26338685 tcaattttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
26338744

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 26338745 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
26338804

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 26338805 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
26338864

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 26338865 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
26338924

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 26338925 tctgcaaaaagcatgcatctcggcgctatctcttg 26338959

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 26812409 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
26812350

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 26812349 tcaagtaccatacttctatccagaccattaatttcgagatccttttttataacctctctt
26812290

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 26812289 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
26812230

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 26812229 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
26812170

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 26812169 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
26812110

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 26812109 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
26812050

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 26812049 actttattctcatggttggtccttgaccgccaacattctgttcggtacaaaatcgccggt
26811990

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 26811989 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
26811930

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 26811929 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
26811870

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 26811869 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
26811810

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 26811809 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
26811750

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 26811749 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
26811690

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 26811689 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
26811630

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 26811629 tctgcaaaagagcatgcatctcggcgctatctcttg 26811595

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 29744021 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
29744080

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 29744081 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
29744140

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 29744141 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
29744200

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 29744201 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
29744260

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 29744261 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
29744320

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 29744321 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctctgctacacct
29744380

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 29744381 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
29744440

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 29744441 cttaccgcagtcgatagaactttcccttttagcttgatcggtacctttgcatcacataac
 29744500

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

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 Sbjct: 29744501 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 29744560

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

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 Sbjct: 29744561 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 29744620

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 29744621 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 29744680

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 29744681 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 29744740

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 29744741 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 29744800

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 29744801 tctgcaaaaagcatgcatctcggcactatctcttg 29744835

Score = 1568 bits (791), Expect = 0.0
 Identities = 809/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 9033967 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 9033908

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 9033907 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
9033848

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 9033847 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
9033788

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 9033787 ctccctcactacagagtctaccggtcttctctttacatgcccaaaccacctaagtctattt
9033728

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

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Sbjct: 9033727 tccaccatcttctctacaatagggtgctactccaaccctctctctaatagtcttcgtttcta
9033668

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 9033667 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
9033608

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 9033607 actttattctcatgttgactctttaccgccaacattctgttcggtacaaaatcgccggt
9033548

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 9033547 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
9033488

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 9033487 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
9033428

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 9033427 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
9033368

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 9033367 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
9033308

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 9033307 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
9033248

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 9033247 ctctaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
9033188

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

||||| |||||
Sbjct: 9033187 tctgcaaaaagcatgcatctcggcactatctcttg 9033153

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 40972557 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
40972498

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 40972497 tcaagtaccatacttcgattcaaaaccattaatttcgagatcctttttgataacctctctt
40972438

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 40972437 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
40972378

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 40972377 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
40972318

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

Sbjct: 40972317 tccaccatcttctttacaataggcgctactccaaccctctctctaatagttcgtttcta
40972258

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 40972257 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
40972198

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

Sbjct: 40972197 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
40972138

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 40972137 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40972078

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

Sbjct: 40972077 acccccgatgcttttctccatttcatccatcctgcttgaatgcgacgattcacatccct
40972018

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

Sbjct: 40972017 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
40971958

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 40971957 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
40971898

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 40971897 catttcatataactccgatttgcttctgcttaggcgaaagtcatgtgtttctagagctcgt
40971838

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 40971837 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
40971778

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 40971777 tctgcaaaaagcatgcatctcggcgctatctcttg 40971743

Score = 1568 bits (791), Expect = 0.0

Identities = 809/815 (99%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 42421524 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
42421583

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 42421584 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
42421643

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 42421644 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
42421703

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 42421704 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
42421763

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 42421764 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
42421823

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 42421824 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
42421883

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 42421884 actttattctcatggttggtctcttgatcgccaacattctgttccgtacaaaatcgccggt
42421943

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 42421944 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
42422003

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 42422004 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccg
42422063

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 42422064 tcaatttccccatcatcctgtattatagaccaagatatattaacgtgtgacttgaggg
42422123

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 42422124 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
42422183

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 42422184 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
42422243

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 42422244 ctccaagtttccaacctctcattcagctcctccctcgactctccaaggaggactatgtca
42422303

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 42422304 tctgcaaaaagcatgcatctcggcgctatctcttg 42422338

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 50881047 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
50881106

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 50881107 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
50881166

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 50881167 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
50881226

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 50881227 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
50881286

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 50881287 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
50881346

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 50881347 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
50881406

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 50881407 actctattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
50881466

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 50881467 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
50881526

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 50881527 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
50881586

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 50881587 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
50881646

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 50881647 gtaatatggtctcctattttcacctctgagttagaaaccctcatttcttttgttgaactta
50881706

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 50881707 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
50881766

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 50881767 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
50881826

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 50881827 tctgcaaaaagcatgcatctcggcgctatctcttg 50881861

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Query: 2003      actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062            |||
Sbjct: 50988720 actctattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
50988661
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Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 50988660 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 50988601

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 50988600 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 50988541

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

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 Sbjct: 50988540 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 50988481

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 50988480 gtaatatggtctcctattttcacctctgagttagaaaccctcatttcttttgttgaactta
 50988421

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 50988420 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 50988361

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 50988360 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
 50988301

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 50988300 tctgcaaaaagcatgcatctcggcgctatctcttg 50988266

Score = 1566 bits (790), Expect = 0.0
 Identities = 812/818 (99%), Gaps = 1/818 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataat-gttct
 1701

|||||

Sbjct: 46572263 aacgccttatcccactaggtgggggtcggttacatggatcaacttccgccataattgttct
46572204

Query: 1702 atcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctct
1761

|||||
Sbjct: 46572203 atcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctct
46572144

Query: 1762 tatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctac
1821

|||||
Sbjct: 46572143 tatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctac
46572084

Query: 1822 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatt
1881

|||||
Sbjct: 46572083 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatt
46572024

Query: 1882 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttct
1941

|||||
Sbjct: 46572023 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttct
46571964

Query: 1942 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
2001

|||||
Sbjct: 46571963 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
46571904

Query: 2002 tactttattctcatgttggtctttgaccgcccacattctgttccgtacaaaatcgccgg
2061

|||||
Sbjct: 46571903 tactttattctcatgttggtctttgaccgcccacattctgttccgtacaaaatcgccgg
46571844

Query: 2062 tcttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataa
2121

|||||
Sbjct: 46571843 tcttatcgagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataa
46571784

Query: 2122 ccccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
2181

|||||

Sbjct: 46571783 ccccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccc
 46571724

Query: 2182 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
 2241

|||||
 Sbjct: 46571723 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
 46571664

Query: 2242 gataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactt
 2301

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 Sbjct: 46571663 gataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactt
 46571604

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcg
 2361

|||||
 Sbjct: 46571603 acattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcg
 46571544

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
 2421

|||||
 Sbjct: 46571543 tctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtc
 46571484

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttgaa 2459

|||||
 Sbjct: 46571483 atctgcaaaaagcatgcatctcggcgctatctcttgaa 46571446

Score = 1560 bits (787), Expect = 0.0
 Identities = 808/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcgggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 27035068 aacgccttatccactaggtggggtcgggctacatggatcaacttccgccataatgttcta
 27035127

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 27035128 tcaagtaccatacttctatccaaatcattaagtctcgagatccttttttataacctctctt
 27035187

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 27035188 atagtctttttgggtcttcctctgtctcgaattatttgtcttctctccatctgggtctact
27035247

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 27035248 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
27035307

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 27035308 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
27035367

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 27035368 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27035427

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 27035428 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
27035487

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 27035488 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
27035547

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 27035548 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
27035607

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 27035608 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
27035667

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 27035668 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
27035727

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 27035728 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
27035787

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 27035788 ctccaagtttccaacctctcattcaactcctccctcgactctccaaaggaggactatgtca
27035847

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 27035848 tctgcaaaaagcatgcatctcggcgctatctcttg 27035882

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 54749234 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
54749175

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 54749174 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
54749115

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 54749114 atagtctttttgggtcttcctctgcctcgaattatgttcttctctccatctgggtctact
54749055

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagttctat
1882

|||||

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

Sbjct: 54748574 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
54748515

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 54748514 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
54748455

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 54748454 tctgcaaaaagcatgcatctcggcgctatctcttg 54748420

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 55513942 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
55513883

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 55513882 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
55513823

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 55513822 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
55513763

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctat
1882

|||||
Sbjct: 55513762 ctctcactacagagtctaccggtcttctctctacatgcacaaaccacctaagttctatgt
55513703

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 55513702 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
55513643

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||

Sbjct: 55513642 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
55513583

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||

Sbjct: 55513582 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
55513523

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 55513522 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
55513463

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

|||||

Sbjct: 55513462 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
55513403

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 55513402 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
55513343

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||

Sbjct: 55513342 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttattgaactta
55513283

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 55513282 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
55513223

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 55513222 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
55513163

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 55513162 tctgcaaaaagcatgcatctcggcgctatctcttg 55513128

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 6103428 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
6103487

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
1762
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Sbjct: 6103488 tcaagtaccatacttctatccaaatcattaagttcgagatccttttgataacctctctt
6103547

Query: 1763 atagtcttttgggtcttcctctgcctcgaattgttgccttctctccatctgggtctact
1822
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Sbjct: 6103548 atagtcttttgggtcttcctctgcctcgaattgttgccttctctccatctgggtctact
6103607

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||||
Sbjct: 6103608 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
6103667

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttcta
1942
|||||||
Sbjct: 6103668 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttcta
6103727

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 6103728 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
6103787

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttcggtacaaaatcgccgggt
2062
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Sbjct: 6103788 actttattctcatgttggtcttgaccgcccacattctgttctgtacaaaatcgccggt
 6103847

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 6103848 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 6103907

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 6103908 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 6103967

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 6103968 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 6104027

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 6104028 ataatatggtctcctattttcacctctgagttagaaaccctccttctgttgaactta
 6104087

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
 2362

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 Sbjct: 6104088 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
 6104147

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 6104148 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 6104207

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 6104208 tctgcaaaaagcatgcatctcggcgctatctcttg 6104242

Score = 1552 bits (783), Expect = 0.0
 Identities = 807/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 25703404 aacgccttatcccattaggtggggctcggctacatggatcaacttccgccataatgttcta
25703345

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 25703344 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
25703285

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 25703284 atagtctttttgggttttcctctgcctcaaattgtttgccttctctccatctgggtctact
25703225

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 25703224 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
25703165

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 25703164 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
25703105

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 25703104 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25703045

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 25703044 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
25702985

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 25702984 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
25702925

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 25702924 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
25702865

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 25702864 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
25702805

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 25702804 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
25702745

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 25702744 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
25702685

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 25702684 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
25702625

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 25702624 tctgcaaaaagcatgcatctcggcgctatctcttg 25702590

Score = 1550 bits (782), Expect = 0.0
Identities = 806/814 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 48195322 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
48195381

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 48195382 tcaagtaccatactttctatccaaatcattaagttcgagatcctttttgataacctctctt
48195441

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 48195442 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
48195501

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 48195502 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
48195561

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 48195562 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
48195621

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgttacacct
2002

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Sbjct: 48195622 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgttacacct
48195681

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 48195682 actttattctcatgttgggtcttgactgccaacattctgttccgtacaaatcgccgggt
48195741

Query: 2063 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 48195742 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
48195801

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 48195802 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
48195861

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 48195862 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
48195921

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 48195922 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
48195981

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 48195982 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
48196041

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 48196042 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
48196101

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctctt 2456
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Sbjct: 48196102 tctgcaaaaagcatgcatctcggcgctatctctt 48196135

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 50126776 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
50126717

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 50126716 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
50126657

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 50126656 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
50126597

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 50126596 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
50126537

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 50126536 tccaccatcttctctacaataggcgccactccaaccctctctctaatagtttcgtttcta
50126477

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 50126476 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
50126417

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 50126416 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
50126357

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 50126356 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
50126297

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 50126296 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatcccct
50126237

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatattttaaccgtgtgacttgaggg
2242

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Sbjct: 50126236 tcaatttccccatcatcctgtattacagaccaagatattttaaccgtgtgacttgaggg
50126177

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 50126176 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
50126117

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 50126116 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctaaagctcgt
50126057

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 50126056 ctctaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
50125997

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|
Sbjct: 50125996 tatgcaaaaagcatgcatctcggcgctatctcttg 50125962

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 52687953 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
52688012

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 52688013 tcaagtaccatacttctatccaaatcattaagttcaagatcctttttgataacctctctt
52688072

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 52688073 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
52688132

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 52688133 ctctcactacagagtctaccggtcttccctctacatgcccacacctaagtctattt
52688192

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 52688193 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
52688252

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 52688253 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
52688312

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 52688313 actttattctcatggttggtccttgaccgccaacattttgttccgtacaaaatcgccggt
52688372

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 52688373 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
52688432

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 52688433 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
52688492

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 52688493 tcaatttctccatcatcctgtattacagaccgaagatatattaaaccgtgtgacttgaggg
52688552

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 52688553 ataatatggtctcctattttcacctctgagttagaaactctccttcttttgttgaactta
52688612

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 52688613 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
52688672

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 52688673 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
52688732

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||| |||||||||||||||||||||
Sbjct: 52688733 tctgcaaaagagcatgcatctcggcgctatctcttg 52688767

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||| |
Sbjct: 45348777 aacgtcttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
45348718

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||| |
Sbjct: 45348717 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
45348658

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||| |
Sbjct: 45348657 atagtctttttgggtcttctctgtctcgaattgtttgtcttctctccatctgggtctact
45348598

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||| |
Sbjct: 45348597 ctctcactaccgagtctaccggtcttctctctatatgcccaaaccacctaagtctattt
45348538

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||| |
Sbjct: 45348537 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
45348478

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||| |
Sbjct: 45348477 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45348418

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 45348417 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
45348358

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 45348357 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
45348298

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 45348297 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
45348238

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccggtgtgacttgaggg
2242

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Sbjct: 45348237 tcaatttctccatcatcctgtattacagaccaagatatttaaaccggtgtgacttgaggg
45348178

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 45348177 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
45348118

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 45348117 cattccatatactccaatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
45348058

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 45348057 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
45347998

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 45347997 tctgcaaaaagcatgcatctcggcgctatctcttg 45347963

Score = 1527 bits (770), Expect = 0.0
Identities = 806/817 (98%), Gaps = 2/817 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 42144846 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
42144905

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 42144906 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
42144965

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 42144966 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
42145025

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 42145026 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
42145085

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 42145086 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
42145145

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 42145146 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
42145205

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 42145206 actttagtctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
42145265

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 42145266 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 42145325

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

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 Sbjct: 42145326 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 42145385

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaacc--gtgtgacttgag
 2240

||||| |
 Sbjct: 42145386 tcaatttctctatcatcctgtattacagaccaagatatttaaaccgtgtgtgacttgag
 42145445

Query: 2241 ggataaatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaact
 2300

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 Sbjct: 42145446 ggataaatatggtctcctattttcacctctgagttagataccctcctacttttgttgaact
 42145505

Query: 2301 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
 2360

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 Sbjct: 42145506 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
 42145565

Query: 2361 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
 2420

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 Sbjct: 42145566 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
 42145625

Query: 2421 catctgcaaaaagcatgcatctcggcgctatctcttg 2457
 |||||
 Sbjct: 42145626 catctgcaaaaagcatgcatctcggcgctatctcttg 42145662

Score = 1521 bits (767), Expect = 0.0
 Identities = 803/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggatcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 49038013 aacgccttatcccactaggtgggatcggctacatggatcaacttccgccataatgttcta
 49037954

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 49037953 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
49037894

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 49037893 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
49037834

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 49037833 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
49037774

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 49037773 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
49037714

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 49037713 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
49037654

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 49037653 actttagtctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
49037594

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 49037593 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
49037534

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 49037533 acccccgatgcttttctccatttcatccatcctgcttgaatgtgatgattcacatcccct
49037474

[illegible]

Sbjct: 42445997 atagtctttttgggtcttctctgctcggattgtttgcttctctccatctggtctact
42446056

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 42446057 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
42446116

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 42446117 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
42446176

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 42446177 attttatcctgtcgagtcttaccacacatccatcgcaacatcctcatctccgctacacct
42446236

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 42446237 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
42446296

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 42446297 cttaccgcagtttgataaaaactttccctttagcttgatcggtacctttgcatcacataac
42446356

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 42446357 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
42446416

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 42446417 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
42446476

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 42446477 ataatatgggtctcctatctttcacctctgagttagaaaccctccttcttttgttgaactta
 42446536

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 42446537 cattccatataacttcgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 42446596

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 42446597 ctccaagtttccatcctctcattcaactcctccctcgactctccaaggaggactatgtca
 42446656

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 42446657 tctgcaaaaagcatgcatctcggcgctatctcttg 42446691

Score = 1511 bits (762), Expect = 0.0
 Identities = 801/814 (98%)
 Strand = Plus / Minus

Query: 1644 acgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctat
 1703

|||||
 Sbjct: 30808108 acgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctat
 30808049

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctta
 1763

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 Sbjct: 30808048 caagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctta
 30807989

Query: 1764 tagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
 1823

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 Sbjct: 30807988 tagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctactc
 30807929

Query: 1824 tcctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatctt
 1883

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 Sbjct: 30807928 tcctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatctt
 30807869

Sbjct: 30807448 attccatatactttgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtc
 30807389

Query: 2364 tccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcat
2423

|||||
Sbjct: 30807388 tccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcat
30807329

Query: 2424 ctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 30807328 ctgcaaaaagcatgcatctcggcgctatctcttg 30807295

Score = 1507 bits (760), Expect = 0.0
Identities = 799/812 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 6089526 aacgccttatcccactaggtggggctcggctacatggatcaacttccgctataatgttcta
6089585

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 6089586 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
6089645

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 6089646 atagtctttttgggtcttcctctgcctcgaattgtttgcctactctccatctgggtctact
6089705

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 6089706 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
6089765

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 6089766 tccaccatcttctctacaataggcgctactccaacccttctctgatagcttcgttttta
6089825

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 6089826 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatcttcgctacacct
6089885

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 6089886 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
6089945

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 6089946 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
6090005

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 6090006 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
6090065

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 6090066 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
6090125

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 6090126 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
6090185

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 6090186 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgt
6090245

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 6090246 ctccaagtttccaacctctcattcaactcctcccgcgactctccaaggaggactatgtca
6090305

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctc 2454

|||||
Sbjct: 6090306 tctgcaaaaagcatgcatctcggcgctatctc 6090337

Score = 1499 bits (756), Expect = 0.0
Identities = 802/816 (98%), Gaps = 1/816 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggg-tcggctacatggatcaacttccgccataatgttct
1701

|||||
Sbjct: 29290992 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttct
29290933

Query: 1702 atcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctct
1761

|||||
Sbjct: 29290932 atcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctct
29290873

Query: 1762 tatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctac
1821

|||||
Sbjct: 29290872 tatagtctttgtgggtcttcctctgccttgaattgtttgccttcgctccatctgggtctac
29290813

Query: 1822 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatt
1881

|||||
Sbjct: 29290812 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtttatt
29290753

Query: 1882 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttct
1941

|||||
Sbjct: 29290752 ttccaccatcttctctataataggcgctactccaaccctctctctaatagtctcgtttct
29290693

Query: 1942 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
2001

|||||
Sbjct: 29290692 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
29290633

Query: 2002 tactttatttctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccgg
2061

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Sbjct: 29290632 tactttatttctcatgttgggtcttgaccgcccacattctgttctgtacaaaatcgccgg
29290573

Query: 2062 tcttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
2121

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Sbjct: 29290572 tcttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
29290513

Query: 2122 ccccccgatgcttttctccatttcattcatcctgcttgaatgcatgattcacatcccc
2181

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Sbjct: 29290512 ccccccgatgcttttctccatttcattcatcctgcttgaatgcatgattcacatcccc
29290453

Query: 2182 ttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2241

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Sbjct: 29290452 ttcaatttctccatcatcctgtattacagaccaagatatttaaacccttgtgacttgagg
29290393

Query: 2242 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
2301

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Sbjct: 29290392 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
29290333

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
2361

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Sbjct: 29290332 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
29290273

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

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Sbjct: 29290272 tctccaagtttccaacctctcattcaactcctccctcaactctccaaggaggactatgtc
29290213

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 29290212 atctgcaaaaagcatgcatctcggcgctatctcttg 29290177

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 210103 aacgccttatcccactaggtgaggtcggctacatggatcaacttccgccataatgttcta
210162

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 210163 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
210222

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 210223 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
210282

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

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Sbjct: 210283 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
210342

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 210343 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
210402

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 210403 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacgcct
210462

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 210463 actttagtctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
210522

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 210523 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
210582

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

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Sbjct: 210583 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
210642

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 210643 tcaatttctccatcattctgtattacagtcccaagatatattaaccgtgtgacttgaggg
210702

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 210703 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
210762

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 210763 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
210822

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 210823 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
210882

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 210883 tctgcaaaaagcatgcatctcgacgctatctcttg 210917

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 49737158 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
49737217

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 49737218 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
49737277

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctggtctact
1822

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Sbjct: 49737278 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctggtctact
49737337

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 49737338 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
49737397

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 49737398 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
49737457

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 49737458 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctctgctacacct
49737517

Query: 2003 actttattctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 49737518 actttagtctcatgttggctcttgaccgccccaccattctgttccgtacaaaatcgccggt
49737577

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 49737578 cttaccgcagtcgataaaaactttccctttaacttgatcggtacctttgcatcacataac
49737637

Query: 2123 acccccgatgcttttctccatttcattcatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 49737638 acccccgatgcttttctccatttcattcatcctgcttgaatgcatgattcacatccct
49737697

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 49737698 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
49737757

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 49737758 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
49737817

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 49737818 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
49737877

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 49737878 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
49737937

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 49737938 tctgcaaatagcatgcatctcggcgctatctcttg 49737972

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 54924439 aacgccttatcccattaggtgggggtggctacatggatcaacttccgccataatgttcta
54924498

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 54924499 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
54924558

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 54924559 atagtctttttggatcttcctctgcctcgaattgtttgccttctctccatctgggtctact
54924618

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 54924619 cttctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
54924678

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 54924679 tccaccatcttctttacaataggcgctactccaaccctctctctaataagcttcgtttcta
54924738

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 54924739 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
54924798

Query: 2003 actttattctcatgttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 54924799 actttattctcatgttgactcttgaccgccccaacattctgttcggtacaaaatcgccggt
54924858

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 54924859 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
54924918

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 54924919 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
54924978

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 54924979 tcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
54925038

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 54925039 ataatatggtctcctattttcacctctgagttagaaatcctccttcttttggtgaactta
54925098

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 54925099 cattccatataactccgatttgcttctgcttaggcgaaagccatttgtttctagagctcgt
54925158

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 54925159 cttcaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
54925218

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 54925219 tctgcaaaaagcatgcatctcggcgctatctcttg 54925253

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 18028996 aacgtcttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
18029055

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 18029056 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
18029115

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 18029116 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
18029175

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

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Sbjct: 18029176 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
18029235

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggtttcta
1942

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Sbjct: 18029236 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggtttcta
18029295

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 18029296 attttatcctgtcgagtcttactacacatccaccgcaacatcctcatctccgctacacct
18029355

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 18029356 actttagtctcatgttggctcttgactgccaacattctgttccgtacaaaatcgccgat
18029415

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 18029416 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18029475

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 18029476 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
18029535

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 18029536 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
18029595

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 18029596 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
18029655

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18029656 cattccatataactccgatttgcttctgcttaggcgaaagctatgtgtttctagagctcgt
18029715

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18029716 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18029775

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||| |||||||||
Sbjct: 18029776 tctgcaaaaacatgcatctcggcgctatctcttg 18029810

Score = 1481 bits (747), Expect = 0.0
Identities = 799/815 (98%), Gaps = 1/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 28343793 aacgccttatcacactaggtggggtcggctacatggatcaacttctgccataatgttcta
28343852

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 28343853 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgatgacctctctt
28343912

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 28343913 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
28343972

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
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Sbjct: 28343973 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
28344032

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 28344033 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
28344092

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 28344093 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
28344152

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 28344153 acttttagtctcatgttggctcttgaccgcccacattctgttcggtacaaaatcgccggt
28344212

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 28344213 cttaccgcagcccgataaaaactttcccttagcttgatcggtacctttgcatcacataac
28344272

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

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Sbjct: 28344273 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccc-
28344331

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 28344332 tcaatttctccatcatcctgtattacaaaccaagatatttaaaccgtgtgacttgaggg
28344391

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 28344392 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
28344451

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 28344452 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
28344511

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 28344512 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
28344571

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 28344572 tctgcaaaaagcatgcatctcggcgctatctcttg 28344606

Score = 1449 bits (731), Expect = 0.0
Identities = 794/815 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 54548005 aacgccttatcccactgggtggggttggctacatggatcaacttccgtcataatgttcta
54548064

Query: 1703 tcaagtaccatactttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 54548065 tcaagtaccatacttttatccaaatcattaagttcgagatccttcttgataacctctctt
54548124

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 54548125 atagtctttttgggtcttcctataacctcgaattgtttgccttctctccatctgggtctact
54548184

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 54548185 ctctcactacagagtctaccggtcttctctctacatgcacaaaccacctaagtctattt
54548244

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 54548245 tccaccatcttctctacaataggcgctactccaactctctctctaatagtccgtttcta
54548304

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 54548305 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
54548364

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 54548365 actttagtctcatgctgggtccttgaccgccaacattctgttccgtacaaaatcgccggt
54548424

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 54548425 cttaccgtagtcgataaaaactttcccttttagcttgatctgtacctttgcatcacataac
54548484

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 54548485 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 54548544

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

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 Sbjct: 54548545 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttaaggg
 54548604

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 54548605 ataatatgggtctcctattttccacctctgagttagataccctcctacttttgttgaactta
 54548664

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 54548665 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 54548724

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 54548725 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 54548784

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 54548785 tctgcaaaaagcatgcatctcggcgctatctcttg 54548819

Score = 1421 bits (717), Expect = 0.0
 Identities = 780/801 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 51323536 aacgccttatcccactaggtgggggtcgactacatgaatcaacttccgccataatgttcta
 51323477

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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Sbjct: 51323476 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
51323417

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 51323416 atagtctttttgagtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
51323357

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

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Sbjct: 51323356 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
51323297

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
1942

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Sbjct: 51323296 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
51323237

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 51323236 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatttccgctacatct
51323177

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 51323176 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaattgacggt
51323117

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 51323116 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
51323057

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|
Sbjct: 51323056 atcccgatgcttttcttcatcttcatccatcctgcttgaatgcgatgattcacatccct
51322997

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 51322996 tcaatttctccatcatcctgtattacagacccaagatatttaaactgtgtgacttgaggg
51322937

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 51322936 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
51322877

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 51322876 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
51322817

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 51322816 ctccaagtttccaacatctcattcaactcctccctcgactctccaaggaggactatgtca
51322757

Query: 2423 tctgcaaaaagcatgcatctc 2443
| |||||

Sbjct: 51322756 tatgcaaaaacatgcatctc 51322736

Score = 1318 bits (665), Expect = 0.0
Identities = 684/690 (99%), Gaps = 4/690 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 6052638 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
6052579

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 6052578 tcaagtaccataacttctatccaaaccattcatttcg----cctttttgataacctctctt
6052523

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 6052522 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
6052463

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 6052462 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
6052403

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 6052402 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
6052343

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 6052342 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
6052283

Query: 2003 actttattctcatggttggtcttggaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 6052282 actttattctcatggttggtcttggaccgccaacattctgttcggtacaaaatcgccggt
6052223

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 6052222 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
6052163

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 6052162 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
6052103

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 6052102 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
6052043

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 6052042 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
6051983

Query: 2303 cattccatataactccgatttgcttctgctt 2332
|||||
Sbjct: 6051982 cattccatataactccgatttgcttctgctt 6051953

Score = 1249 bits (630), Expect = 0.0
Identities = 642/646 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 48869262 aacgccttatcccattaggtggggtcggctacatggatcaacttccgccataatgttcta
48869321

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 48869322 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
48869381

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 48869382 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
48869441

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 48869442 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
48869501

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 48869502 tccaccatcttctctacaataggcgctactccaaccctctctctaataagctttgtttta
48869561

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 48869562 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
48869621

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 48869622 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
48869681

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 48869682 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
48869741

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 48869742 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
48869801

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 48869802 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
48869861

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttc 2288
|||||

Sbjct: 48869862 ataatatggtctcctattttcacctctgagttagaaaccctccttc 48869907

Score = 1213 bits (612), Expect = 0.0
Identities = 657/672 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 47819014 aacgccttatccactaggtaggggtcggctacatagatcaacttccgccataatgttcta
47819073

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 47819074 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
47819133

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 47819134 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
47819193

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 47819194 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
47819253

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 47819254 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtccgtttcta
47819313

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 47819314 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
47819373

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 47819374 actttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaattgccgat
47819433

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 47819434 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
47819493

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 47819494 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatcccct
47819553

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 47819554 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
47819613

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 47819614 ataatatggtctcctatttttcacctctgagttagataccccctacttttgttgaactta
47819673

Query: 2303 cattccatatac 2314
|||||||
Sbjct: 47819674 cattccatatac 47819685

Score = 1180 bits (595), Expect = 0.0
Identities = 637/651 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 18451819 aacgccttatcccactaggtggggtcacctacatggatcaacttccgccataatgttcta
18451760

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 18451759 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
18451700

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 18451699 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
18451640

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||||
Sbjct: 18451639 ctctcactatagagtctaccggtcttctctctacatgcccaaacaacctaagttctattt
18451580

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942
|||||||
Sbjct: 18451579 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcatttcta
18451520

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 18451519 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
18451460

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 18451459 actttattctcatattggctcttgaccgccaacattctgttcggtacaaaaatcgccggt
18451400

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 18451399 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18451340

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

||| |||||
Sbjct: 18451339 acctccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
18451280

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 18451279 tcaatttcccatcatcctgaattacagaccaagatatttaaaccgtgtgaattgaggg
18451220

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttg 2293
|||||

Sbjct: 18451219 ataatatggtctcctattttcacctctgagttagaaaccctcctacttttg 18451169

Score = 1106 bits (558), Expect = 0.0
Identities = 582/590 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 46528259 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
46528200

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 46528199 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
46528140

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 46528139 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
46528080

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 46528079 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
46528020

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 46528019 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
46527960

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 46527959 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
46527900

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 46527899 actttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
46527840

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 46527839 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
46527780

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatccct
2182
|||||
Sbjct: 46527779 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatccct
46527720

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgt 2232
|||||
Sbjct: 46527719 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgt 46527670

Score = 1037 bits (523), Expect = 0.0
Identities = 538/543 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactagggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 47225024 aacgccttatctcactaggtggggtcggctacatggatcaacttcgcccataatgttcta
47224965

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 47224964 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
47224905

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 47224904 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
47224845

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 47224844 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
47224785

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 47224784 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
47224725

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 47224724 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
47224665

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 47224664 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
47224605

Query: 2063 cttaccgcagtcgcgataaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 47224604 cttaccgcagtcgcgataaaactttcccttagcttgatcggtacctttgcatcacataac
47224545

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 47224544 acctccgatactttttctccatttcatccatcctgcttgaatgcgatgattcacattccct
47224485

Query: 2183 tca 2185
 |||
Sbjct: 47224484 tca 47224482

Score = 977 bits (493), Expect = 0.0
Identities = 538/553 (97%)
Strand = Plus / Minus

Query: 1742 tcctttttgataacctctcttatagcttttttgggtcttcctctgcctcgaattgtttgt
1801
 ||||| ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2654883 tccttcttgataacctctcttatagcttttttgggtcttcctctgcctcgaattgtttgt
2654824

Query: 1802 cttctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgc
1861
 ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2654823 cttctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgc
2654764

Query: 1862 ccaaaccacctaagtctattttccaccatcttctctacaataggcgctactccaaccctc
1921
 ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2654763 aaaaaccacctaagtctattttccaccatcttctctacaataggcgctactctaaccctc
2654704

Query: 1922 tctctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgcaac
1981
 |||||||||||| ||||||||||||||||||||||||||||||||||||||||
Sbjct: 2654703 tctctaatagctctgtttctaattttatcctgtcgagtcttaccacacatccaccgcaac
2654644

Query: 1982 atcctcatctccgctacacctactttattctcatgttgggtcttgaccgccaacattct
2041
 |||||||||||||||||||||||||||| ||||||||||||||||||||
Sbjct: 2654643 atcctcatctccgctacacctacttttagtctcatgttgggtcttgaccgctcaacattct
2654584

Query: 2042 gttccgtacaaaatcgccggtcttaccgcagttcgataaaaactttcccttttagcttgatc
2101
 |||||||||||||||||||||||||||| ||||||||||||||||||||
Sbjct: 2654583 gttccgtacaaaatcgccggtcttaccgcagttcgataaaaactttcccttttagcttgatc
2654524

Query: 2102 ggtacctttgcatcacataacacccccgatgcttttctccatttcacccatcctgcttga
2161

|||||
Sbjct: 2654523 ggtacctttgcatcacataacacccccgatgcttttctccatttcacccatcctgcttga
2654464

Query: 2162 atgcgatgattcacatccccttcaatttcccatcatcctgtattacagacccaagatat
2221

|||||
Sbjct: 2654463 atgcgatgattcacatccccttcaatttctccatcatcctgtattacaaacccaagatat
2654404

Query: 2222 ttaaaccgtgtgacttgagggataaatatgggtctcctattttcacctctgagttagaaacc
2281

|||||
Sbjct: 2654403 ttaaaccgtgtgacttgaggaataaatatgggtctcctattttcacctctgagttagataacc
2654344

Query: 2282 ctccttcttttgt 2294

|||||
Sbjct: 2654343 ctcctacttttgt 2654331

Score = 902 bits (455), Expect = 0.0
Identities = 482/491 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 31899306 aacgccttatccactaggtagggtcggctacatggatcaacttccgccataatgttcta
31899365

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 31899366 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
31899425

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 31899426 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
31899485

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 31899486 |||||
 31899545 ctctcactacagagtctactgggtcttctctctacatgcccaaaccacctaagtctattt

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

Sbjct: 31899546 |||||
 31899605 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

Sbjct: 31899606 |||||
 31899665 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct

Query: 2003 actttattctcatggtgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
 2062

Sbjct: 31899666 | |||||
 31899725 attttatctcatggtgggtcttgaccgccaacatttgggtccgtacaaaatcaccggt

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 2122

Sbjct: 31899726 |||||
 31899785 cttaccgcaatccgataaaaactttccctttagcttgatcggtacctttgcatcacataac

Query: 2123 acccccgatgc 2133
 |||||
 Sbjct: 31899786 acccccgatgc 31899796

Score = 866 bits (437), Expect = 0.0
 Identities = 452/457 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
 1702

Sbjct: 42475711 |||||
 42475652 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

Sbjct: 42475651 |||||
 42475592 tcaagtaccatacttctatccaaaccattaatttcgagatcctttctgataacctctctt

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 42475591 atagtctttttggatcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
42475532

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 42475531 ctctcactacagagtctaccggttttctctctacatgcccaaaccacctaagttctattt
42475472

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 42475471 tccaccatcttctctacaataggcgctgctccaaccctctctctaatagtctcgtttcta
42475412

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 42475411 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
42475352

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 42475351 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
42475292

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttga 2099

|||||
Sbjct: 42475291 cttaccgcagtcgataaaaactttcccttttagcttga 42475255

Score = 821 bits (414), Expect = 0.0
Identities = 423/426 (99%)
Strand = Plus / Plus

Query: 1745 tttttgataacctctcttatagtctttttgggtcttcctctgcctcgaattgtttgtctt
1804

|||||
Sbjct: 29689822 ttttttataacctctcttatagtctttttgggtcttcctctgcctcgaattgtttgtctt
29689881

Query: 1805 ctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgccca
 1864

|||||
 Sbjct: 29689882 ctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgccca
 29689941

Query: 1865 aaccacctaagtctattttccaccatcttctctacaataggcgctactccaaccctctct
 1924

|||||
 Sbjct: 29689942 aaccacctaagtctattttccaccatcttctctacaataggcgctactccaaccctctct
 29690001

Query: 1925 ctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgcaacatc
 1984

|||||
 Sbjct: 29690002 ctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgcaacatc
 29690061

Query: 1985 ctcatctccgctacacctactttattctcatgttggtctttgaccgccaacattctggt
 2044

|||||
 Sbjct: 29690062 ctcatctccgctacaccgactttattctcatgttggtctttgaccgccaacattctggt
 29690121

Query: 2045 ccgtacaaaatcgccggtcttaccgcagtcgataaaaactttccctttagcttgatcggt
 2104

|||||
 Sbjct: 29690122 ccgtacaaaatcgctcggtcttaccgcagtcgataaaaactttccctttagcttgatcggt
 29690181

Query: 2105 acctttgcatcacataacacccccgatgcttttctccatttcatccatcctgcttgaatg
 2164

|||||
 Sbjct: 29690182 acctttgcatcacataacacccccgatgcttttctccatttcatccatcctgcttgaatg
 29690241

Query: 2165 cgatga 2170

|||||
 Sbjct: 29690242 cgatga 29690247

Score = 781 bits (394), Expect = 0.0
 Identities = 443/459 (96%), Gaps = 4/459 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||

Sbjct: 50661291 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
50661232

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 50661231 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
50661172

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 50661171 atagtctttttgggtcttctctgtctcgaattgtttgccttctctccatctgggtctact
50661112

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctatatt
1882

|||||
Sbjct: 50661111 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctactt
50661052

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 50661051 tccaccatcttctctacaataggcgctactccaaccctctctctaataagctttgttttta
50660992

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 50660991 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
50660932

Query: 2003 actttattctcatgttggtccttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 50660931 actttattctcatgttggtccttgaccgccccaa----ctgttccgtacaaaatcgctggt
50660876

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatc 2101

|||||
Sbjct: 50660875 cttaccgcagtcgataacaactttcccttttagcttgatc 50660837

Score = 734 bits (370), Expect = 0.0
Identities = 370/370 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 50533821 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
50533880

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 50533881 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
50533940

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 50533941 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
50534000

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 50534001 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
50534060

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 50534061 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
50534120

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 50534121 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
50534180

Query: 2003 actttattct 2012

|||||
Sbjct: 50534181 actttattct 50534190

Score = 644 bits (325), Expect = 0.0
Identities = 337/341 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 848885 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
848944

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 848945 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
849004

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 849005 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctcccatctgggtctact
849064

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 849065 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
849124

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 849125 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
849184

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacat 1983

|||||
Sbjct: 849185 attttatcctgtcgagtcttaccacacatccaccgcaacat 849225

Score = 593 bits (299), Expect = e-166
Identities = 302/303 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 17454564 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17454623

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 17454624 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
17454683

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 17454684 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 17454743

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 1882

|||||
 Sbjct: 17454744 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 17454803

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
 1942

|||||
 Sbjct: 17454804 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
 17454863

Query: 1943 att 1945

|||
 Sbjct: 17454864 att 17454866

Score = 577 bits (291), Expect = e-161
 Identities = 303/307 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 2186509 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 2186568

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 2186569 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 2186628

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 2186629 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 2186688

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 2186689 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacccaagtctatatt
2186748

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 2186749 tccaccatcttttctacaataggcgctactccaaccctctctctaataagcttcgtttcta
2186808

Query: 1943 attttat 1949

|||||
Sbjct: 2186809 attttat 2186815

Score = 547 bits (276), Expect = e-152
Identities = 282/284 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 9279541 aacgccttatcccattaggtggggctcggctacatggatcaacttccgccataatgttcta
9279482

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 9279481 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
9279422

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 9279421 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
9279362

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|| |||||
Sbjct: 9279361 cttctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
9279302

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctct 1926

|||||
Sbjct: 9279301 tccaccatcttctctacaataggcgctactccaaccctctctct 9279258

Score = 515 bits (260), Expect = e-143
 Identities = 281/288 (97%)
 Strand = Plus / Plus

Query: 1646 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
 1705
 Sbjct: 32208661 gccttatcccactaggtgggggtcggctacatggatcaacttccgtcataatgttctatca
 32208720

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
 1765
 Sbjct: 32208721 agtaccatacttctatccaaatcattaagttcgagatccttctggataacctctcttata
 32208780

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
 1825
 Sbjct: 32208781 gtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctactctc
 32208840

Query: 1826 ctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
 1885
 Sbjct: 32208841 ctactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctattttcc
 32208900

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaataagct 1933
 Sbjct: 32208901 accatcttctctacaataggcgctactccaaccctctctctaataagct 32208948

Score = 498 bits (251), Expect = e-138
 Identities = 263/267 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 Sbjct: 28419868 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 28419927

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 28419928 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
28419987

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 28419988 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
28420047

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 28420048 ctctcactacagagtctaccggtcttctctctacatgcctaaaccacctaagtctattt
28420107

Query: 1883 tccaccatcttctctacaataggcgct 1909
|||||
Sbjct: 28420108 tccaccatcttctctacaacaggcgct 28420134

Score = 458 bits (231), Expect = e-126
Identities = 231/231 (100%)
Strand = Plus / Plus

Query: 1644 acgccttatcccactaggtggggctcggctacatggatcaacttcgcccataatgttctat
1703
|||||
Sbjct: 45683748 acgccttatcccactaggtggggctcggctacatggatcaacttcgcccataatgttctat
45683807

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
1763
|||||
Sbjct: 45683808 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
45683867

Query: 1764 tagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctactc
1823
|||||
Sbjct: 45683868 tagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctactc
45683927

Query: 1824 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaa 1874
|||||
Sbjct: 45683928 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaa 45683978

Score = 438 bits (221), Expect = e-120
Identities = 233/237 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 43733565 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
43733624

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 43733625 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
43733684

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 43733685 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
43733744

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcta
1879
|||||
Sbjct: 43733745 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcta
43733801

Score = 436 bits (220), Expect = e-119
Identities = 241/248 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 47767410 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctg
47767351

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 47767350 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
47767291

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
 1822
 |||||
 Sbjct: 47767290 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
 47767231

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
 1882
 |||||
 Sbjct: 47767230 ctctcactacagaatctaccggtcttctctctacatgccccaaaccacctaagttctattt
 47767171

Query: 1883 tccacat 1890
 |||||
 Sbjct: 47767170 tccacat 47767163

Score = 381 bits (192), Expect = e-102
 Identities = 207/212 (97%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 1181628 aacgccttatcccattaggtggggtcggctacatggatcaacttccgccataatgttcta
 1181687

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||
 Sbjct: 1181688 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttataacctctctt
 1181747

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
 1822
 |||||
 Sbjct: 1181748 atagtctttttgggtcttcctctgcctcgaatagtttgtcttctctccatctggtttact
 1181807

Query: 1823 ctctcactacagagtctaccggtcttctctc 1854
 |||||
 Sbjct: 1181808 ctctcactacagagtctaccggtcttctctc 1181839

Score = 317 bits (160), Expect = 2e-83
 Identities = 166/168 (98%)

Sbjct: 27730800 | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
27730859 tgtgtgggtgtgtctatgatggtaatatataactcaaggcatgtgaggttgagagtga


```
Query: 1643      aacgccttatcccaactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702            |||
Sbjct: 29689731 aacgccttatcccaactaggtggggctcggctacatggatcaacttccgccataatgttcta
29689790
```

Query: 1703 tcaagtaccatacttctatccaaaccattaattt 1736
|||||
Sbjct: 29689791 tcaagtaccatacttctatccaaaccattaattt 29689824

Score = 180 bits (91), Expect = 3e-42
Identities = 103/107 (96%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaaat
1257
|||||
Sbjct: 2819946 catacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaaat
2820005

Query: 1258 atctgatatgtggggtcattggcccatgatattaaatttatttttt 1304
|||||
Sbjct: 2820006 atctgatatgtggaccattgggtccacacgatattaaatttatttttt 2820052

Score = 180 bits (91), Expect = 3e-42
Identities = 393/490 (80%), Gaps = 9/490 (1%)
Strand = Plus / Minus

Query: 6675 ggaatgcgacacatggaacatcattttgggtttacctgattccttgatatccattttgggtg
6734
|||||
Sbjct: 26540329 ggaatgcgacacatagaacatcgctttgcgtgacccgattctcagatatccattttgggtg
26540270

Query: 6735 tgtatacgagaggagacatgacaacctttagaatttcttttcatttttggggtggggcaa
6794
||
Sbjct: 26540269 tggatacgagagtagacaggacgacccttagaatttcttttttatttgggtcgggacag
26540210

Query: 6795 attcttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcat
6854
||
Sbjct: 26540209 atcatgggctactgacatggagaccaatacgcttcggtgtgcaattctccaaacaatcat
26540150

Query: 6855 ttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactca
6914
|||||

Sbjct: 26540149 ctgtatatgtagagacactttccaacatatacacaagatgtatgtagttcctataactga
 26540090

Query: 6915 tgggtgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaat
 6971

||||| ||||| | | ||||| ||||| || ||| ||| ||| | |||

Sbjct: 26540089 tgggtgaggatgcttacaagtagcaacaacatgagaaaaatgcatatgcaatttctagaat
 26540030

Query: 6972 ttgtcacagtcacactacctttcatctagcttgaccatgaaatttctcactagttgaatc
 7031

||||| ||||| ||||| ||||| | ||| | ||||| || | | | ||| |

Sbjct: 26540029 ttgtcatagtcacaccacctttcatccaacttaactgtgaaatctccaattggcgaacc
 26539970

Query: 7032 tctctctccag-ttaattgtctcctagactaagaattgtatgtcgcattaatcgaactca
 7090

||||| ||| || ||||| ||||| || ||||| | ||| ||||| || |||||

Sbjct: 26539969 tctct---cagatttattgtctcctggaccaagaaccatgtgttgcatgtattgaactca
 26539913

Query: 7091 agaacaatgtgagagtttgcccttttctgtatgtctttcatagccttgtttaataactttt
 7150

||||| |||| |||| |||| | ||| |||| ||||| ||||| |||||

Sbjct: 26539912 agaacaa--tgagtgttgactttcttctgtgcatcttcgatagccttgtttaataactttc
 26539855

Query: 7151 gtataaactt 7160

|||||

Sbjct: 26539854 gtataaactt 26539845

Score = 174 bits (88), Expect = 2e-40
 Identities = 136/152 (89%)
 Strand = Plus / Plus

Query: 4261 atgaaactgatacaagctattataaaaggagttctcaggcacactaactaaacatctttg
 4320

||||| |||| | | ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 2812113 atgaaactgacagacgctattataaaaggagttatcagacacagtggaagcatctttg
 2812172

Query: 4321 cgcttgggacaataacgcagctagtgaggttctaaccgaggtgtgtctattgctggttga
 4380

||||| |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 2812173 cgcttggggcaatgacgcagctagtgaggttctaaccgaggtgtgtctattgctggttga
 2812232

Query: 4381 aaactatTTTcaaaccctctgaggcctggg 4412
 |||||
 Sbjct: 2812233 aaactatTTTcaaaccctcttaggcctggg 2812264

Score = 174 bits (88), Expect = 2e-40
 Identities = 227/272 (83%), Gaps = 1/272 (0%)
 Strand = Plus / Minus

Query: 7485 caatcaaataatttggggagggggtcttcaaaacttgattcaagggttcattgtatcatcg
 7544
 |||||
 Sbjct: 4460731 caatcaaacaatttggggaggggatctttaaactcaattcaagggttcattgcttcatgg
 4460672

Query: 7545 aggtattcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtgtgtgca
 7604
 |||||
 Sbjct: 4460671 agatatttatccaaaccctccaaattcaaagagctggcataaattgggtgggtgtgtgca
 4460612

Query: 7605 tatgtttatgtgggtgtgtctacggtgataacataaaactcaaggcatgtgaagttgaag
 7664
 |||||
 Sbjct: 4460611 catgtttgtgtgggtgtgtcttgggtggcaatatataactccaagcatgtgagcttgaag
 4460552

Query: 7665 agtttcccaaatatagaaaacatagtaattatttcctcatcatcttgagcatacatgcc
 7724
 |||||
 Sbjct: 4460551 attttgacgaagatatagaaaacatagtca-tacgttctcatcatcttgcaacatgcatgcc
 4460493

Query: 7725 ctgtactgaaaacaatcaccaacaaatgatac 7756
 |||||
 Sbjct: 4460492 ctgtactggccacaatcaccaacaaatgatac 4460461

Score = 174 bits (88), Expect = 2e-40
 Identities = 188/220 (85%), Gaps = 1/220 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 |||||

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733

|||||
Sbjct: 40560016 tcaagtaccatacttctatccaaatcattaa 40560046

Score = 172 bits (87), Expect = 7e-40
Identities = 90/91 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 55610804 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
55610745

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733

|||||
Sbjct: 55610744 tcaagtaccatacttctatccaaatcattaa 55610714

Score = 169 bits (85), Expect = 1e-38
Identities = 121/133 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 18969734 aaaattaattatcacaaaatttattatgtaaatttacatgtacattaaatatacattaga
18969675

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 18969674 aatttttagtggttatatatagcgacattaattattttataacataattgacttattagctc
18969615

Query: 5237 agttggtttagagc 5249

|||||
Sbjct: 18969614 agttggtttagagc 18969602

Score = 169 bits (85), Expect = 1e-38
Identities = 94/97 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttcgccataatgttcta
1702

|||||
Sbjct: 27228526 aacgccttatcccactaggtggggctcggctacatgaatcaacttcgccataatgttcta
27228585

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcga 1739

|||||
Sbjct: 27228586 tcaagtaccatacttctatccaaatcattaagttcga 27228622

Score = 169 bits (85), Expect = 1e-38
Identities = 151/173 (87%)
Strand = Plus / Plus

Query: 6488 ttgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaatta
6547

|||||
Sbjct: 27245417 ttgaaactaaaaaaaaacatatgtaaccaacaagttgaattgaactaaaatatttaaattg
27245476

Query: 6548 caaaatagatatgaaattacaaacaatagaacaaaatattttaaatgtgaaataatacaac
6607

|||||
Sbjct: 27245477 caaaatatatataaaattaccaataatagaacaaaatattttaaatgtgaaacaatagaac
27245536

Query: 6608 aaaaattttaaaatacaaaacaatatggcataaaaattaatggttggtggcctgag 6660

|||||
Sbjct: 27245537 aaaattttaaaaaatacaaaagaatatgacataaaacttaacggttggtggcctgag
27245589

Score = 165 bits (83), Expect = 2e-37
Identities = 179/211 (84%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataaaatatacattagaaattttagtgtta
5189

|||||
Sbjct: 2320265 acaaaatttattattttaatttacatgcacattaaatatacgttagaaattttagtgtta
2320206

Query: 5190 tatttagtgaaattaattattttataacataattgatgtattagttcagttgggttagagc
5249

|||||

Score = 163 bits (82), Expect = 6e-37
Identities = 166/194 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 42916551 aaaattaattatcacaaaatttattatctaaatttacatgtgcattaaatatacattaaa
 42916610

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 42916611 aatttttagtggttacatatagcgacattaattattttataataataattgatttattaactt
 42916670

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 42916671 agttggtagagcattgtgttaataatgcaaaagtcaggggttgatttttacttaggtc
 42916730

Query: 5297 attaattttaaatt 5310
 |||||
 Sbjct: 42916731 attaattctaaatt 42916744

Score = 163 bits (82), Expect = 6e-37
 Identities = 193/226 (85%), Gaps = 3/226 (1%)
 Strand = Plus / Plus

Query: 5115 aaaaaattaattggttacaaaatttattatctaaatttgcacataaatatacatta
 5174
 |||||
 Sbjct: 48677223 aaaaaattaattatcacaaaatttattatataaaatttacatgtacattaaatatacatta
 48677282

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
 5234
 |||||
 Sbjct: 48677283 gaaattttagtattatatataacgatattaattattttataacataattgggtcgattaat
 48677342

Query: 5235 tcagttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgg-
 5293
 |||||
 Sbjct: 48677343 tcagttggtaga-agttgtgttaataacataaaaagatacatgtttaattctt-cttggg
 48677400

Query: 5294 atcattaattttaaattaatttgtaaaatatatttttgaaaaaaaa 5339
 |||||
 Sbjct: 48677401 atcattaattttaaattaattccaaaatttatatttttgaaaaaaaa 48677446

Score = 163 bits (82), Expect = 6e-37
 Identities = 130/146 (89%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 52810874 aaaattaattgtcacaaaatttattatataaaatttacatgtacgttaaatacattaga
 52810933

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 52810934 aatttttagtggttatataatgaaattaattattttataatataattattctattagttt
 52810993

Query: 5237 agttggtagagcattatgttaataa 5262

|||||
 Sbjct: 52810994 agttggtagagtatcgtgttaataa 52811019

Score = 161 bits (81), Expect = 3e-36
 Identities = 190/225 (84%), Gaps = 1/225 (0%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattag
 5175

|||||
 Sbjct: 5851108 aaaaattaattgtcacaaaatt-attatgtaaatttacatgtgcattaaatacattaa
 5851050

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235

|||||
 Sbjct: 5851049 aaatttttagtattatatatagcgacattaattattttataacataattgggtctattagct
 5850990

Query: 5236 cagttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
 5295

|||||
 Sbjct: 5850989 tagtttgtagagcgtcatgctaataatgcaaaagttatatgtttgattcttacttgaac
 5850930

Query: 5296 cattaatttttaaatattgtgaaatatatttttgaaaaaaaaa 5340

|||||
Sbjct: 5850929 tattaattttaaattaattctttaaacaatatctttaaaaaaaaaa 5850885

Score = 161 bits (81), Expect = 3e-36
Identities = 147/169 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 42916456 aaaattaattatcacaaaatttattatctaaatttacatgcgcattaaatatacattaga
42916397

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 42916396 aatttttagtggttatatatagcgacactaattattttgtaacataattgggtgattagctt
42916337

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattc 5285

|||||
Sbjct: 42916336 agttggtagaacatcgtgctaataaacttgaaagtcacaagttcaattc 42916288

Score = 159 bits (80), Expect = 1e-35
Identities = 131/148 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 55393021 aaaattaattggttacaaaatttattatgtaaatTTTTatgtgtattaaatatacattaaa
55393080

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| ||||
Sbjct: 55393081 aaatttaattggttatatacagcgacattaattatTTTTtaacataattgatctattagttc
55393140

Query: 5237 agttggtagagcattatggttaataatg 5264

|||||
Sbjct: 55393141 agttggtagagcatcatgttaataatg 55393168

```
Query: 5237      agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattc 5285
                ||| ||||| ||| ||| ||||| ||| ||||| ||||| ||||| |||||
Sbjct: 5280383  agttgggttagaacatcgtgctaataaagcgaaaagtcataagttcgattc 5280431
```

Score = 153 bits (77), Expect = 6e-34
Identities = 86/89 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 47667300 aacgccttatcccactaggtgggatcagctacatggatcaacttccgccataatgttcta
47667359

Query: 1703 tcaagtaccatacttctatccaaaccatt 1731
|||||
Sbjct: 47667360 tcaagtaccatacttctatccaaatcatt 47667388

Score = 151 bits (76), Expect = 2e-33
Identities = 210/254 (82%), Gaps = 8/254 (3%)
Strand = Plus / Plus

Query: 7445 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttggggag
7504
|||||
Sbjct: 32442526 aacacacatgacaacttcaaataattaaataataaaaataaaaatcaattaaattggggg
32442585

Query: 7505 gggg-----tcttcaaaacttgattcaagggttcattgtatcatcgaggtattcacccaa
7558
|||||
Sbjct: 32442586 ggggggggggttctttaaactggattcaagggttgatgcttcatcgaggtattcatcaa
32442645

Query: 7559 accctccaaattcaaagagcttgcagaaactgggtggg--ttgtgcatatgtttatgtg
7616
|||||
Sbjct: 32442646 accctccaaattcaaagaccttgaagaaattgggtgatggatgtgtgcacatgtttgtgtg
32442705

Query: 7617 ggtgtgtctacggtgataacataaaactcaaggcatgtgaagttgaagagtttcccaaat
7676
|||||
Sbjct: 32442706 ggtgtgtctgtgggtggaatatataattgaaggcatgtgaggttggagagttgcctgaac
32442765

Query: 7677 atagaaaacatagt 7690
|||||

Sbjct: 32442766 atagaaaacatagt 32442779

Score = 149 bits (75), Expect = 1e-32
Identities = 117/131 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 554469 aaaattaattgtcacaaaatttattatgtaaatttatatgtacattaaatatacattata
554528

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 554529 aatttttagtggttatatatagtgacattaattattttataacataattgacttactagctt
554588

Query: 5237 agttgggttaga 5247

|||||
Sbjct: 554589 agttgggttaga 554599

Score = 149 bits (75), Expect = 1e-32
Identities = 239/293 (81%), Gaps = 3/293 (1%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
6737

|||||
Sbjct: 27245629 atgcgacacatggaacatcgcttgggtgatctgattctcaaatatccatttcgacgtgg
27245688

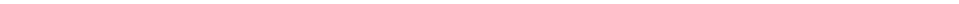
Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaat
6797

|||
Sbjct: 27245689 atatgagaggagacaggacgacccttagaatttcttttcctgttgggtcgaggttagatt
27245748

Query: 6798 cttggcttggtgacatgggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857

|||||
Sbjct: 27245749 attggctcgtgaaatgggtggccaatacgcttcgttgcacaatttcccaacaatcctttg
27245808

Query: 6488 ttgaaattaaaaatatatatattaactgacaagttgacttgaactaaaatatttaaatta
6547



Sbjct: 24871693 ttgaaattaaagaaaacatatgtaaccaacaagttgaattgaactaaaatattttaaata
 24871752

Query: 6548 caaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataatacaac
 6607

|||||| | | |||||| |||| |||||||||||||||| || |||| ||
 Sbjct: 24871753 caaaatattt-taaaattaccaacaactgaacaaaatattttaaatttaaacaatataac
 24871811

Query: 6608 aaaaatttttaaatacaaaacaatatggcataaaattaatgttgttggcctgagcctac
 6665

|||| |||||||||||||| |||||| |||||| | |||||||||||| || ||||
 Sbjct: 24871812 aaaatttttaaatacaaaagaatatgacataaattcaatgttgttggcctgaacctac
 24871869

Score = 147 bits (74), Expect = 4e-32
 Identities = 185/222 (83%)
 Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattagaa
 5177

||||||| | |||||||||||||| |||||| | || || ||||||||||||||||
 Sbjct: 37280569 aaattaattatcacaaaatttattatgtaaatttacgtgtgcattaaatatacattagaa
 37280510

Query: 5178 attttagtggttatattttagtgaaattaattattttataacataattgatgtattagttca
 5237

|||||||||||||| || | | |||||||||||||||||||||| || |||| | |
 Sbjct: 37280509 attttagtggttatatatagcgacattaattattttataacataattgggtttattagctta
 37280450

Query: 5238 gttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatca
 5297

||||||| | || | ||||| |||||||| | || | |||| | |||| |
 Sbjct: 37280449 gttgggttaaaatattgtactaataacatgaaagtcacaggttgattcctggttgaaccg
 37280390

Query: 5298 ttaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5339

|| |||||||||||||| |||| ||||||||
 Sbjct: 37280389 ttgatttttaaattaattcgtaaattatatatttttaaaaaaaaa 37280348

Score = 145 bits (73), Expect = 1e-31
 Identities = 127/145 (87%)
 Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177
|||||
Sbjct: 38729514 aaattaattgtcacaaaatttattatataaaatttacatgtgcattaaatatacattagaa
38729573

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
5237
|||||
Sbjct: 38729574 attttagtggttatataatgacattaattattttataacataattgtcttattatctca
38729633

Query: 5238 gttggtagagcattatgttaataa 5262
|||||
Sbjct: 38729634 gttggttaagcggttgctgtaataa 38729658

Score = 145 bits (73), Expect = 1e-31
Identities = 118/133 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 46545316 aaaattaattcttacaaaatttattatttaaatttgcacataaatatacattgga
46545375

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 46545376 aatttttagtggttatatagtaacattattttattataatataattgggtctattagtta
46545435

Query: 5237 agttggtagagc 5249
|||||
Sbjct: 46545436 agttggtttgagc 46545448

Score = 141 bits (71), Expect = 2e-30
Identities = 110/123 (89%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175
|||||

Sbjct: 39532513 aaaaattaattatcacaaaaaatattatgtaaatttacatgtccattaaatatacattag
 39532572

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
 5235

|||||
 Sbjct: 39532573 aaatTTtagtattatatatagtgacattaattatTTTataacataattgatctattagtt
 39532632

Query: 5236 cag 5238
 |||
 Sbjct: 39532633 cag 39532635

Score = 139 bits (70), Expect = 9e-30
 Identities = 136/158 (86%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattag
 5175

|||||
 Sbjct: 43386445 aaaaattaattattacaaaatttattatgtaaatttacatgttcattaaatttacattac
 43386504

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
 5235

|||||
 Sbjct: 43386505 aaatTTtagtgTtatatatagcgacattaattatTTTataacataattatcctactacct
 43386564

Query: 5236 cagttggTtagagcattatgttaataatgtgaaagtca 5273
 |||||
 Sbjct: 43386565 cagttggTtagagtgtcatgctaataatgtgaaagtca 43386602

Score = 137 bits (69), Expect = 4e-29
 Identities = 105/117 (89%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattag
 5175

|||||
 Sbjct: 1707905 aaaaattaattatcataaaaatttattatgtaaatttacatgtgcattaaatatacattag
 1707846

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtatta 5232

|||||
Sbjct: 1707845 aaatttttagtggttatatataatgatattaattattttataacataattaatgtatta
1707789

Score = 137 bits (69), Expect = 4e-29
Identities = 117/133 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 50819877 aaaattaattgtcataagatttattatctaaatttatatgcaaattaaatatacattaga
50819818

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 50819817 aatttttagtggttatatataaattacattaattattttataacataattaacctattaactc
50819758

Query: 5237 agttgggttagagc 5249

|||||
Sbjct: 50819757 agttgggttagagc 50819745

Score = 135 bits (68), Expect = 1e-28
Identities = 86/92 (93%)
Strand = Plus / Minus

Query: 6569 aacaatagaacaaaatattttaaatttgaaataataacaacaaaaattttaaaatacaaaca
6628

|||||
Sbjct: 26540457 aacaatagaacaaaatattttaaatttgaaataataacaacaaaaattttaaaatacaaaga
26540398

Query: 6629 atatggcataaaaattaatgttggttgccctgag 6660

|||||
Sbjct: 26540397 atatgacataaatttaattgttggttgccgtgag 26540366

Score = 135 bits (68), Expect = 1e-28
Identities = 153/180 (85%), Gaps = 6/180 (3%)
Strand = Plus / Plus

Query: 7447 cacacatgacaactacaaatcattaaataatacaattacaatcaaataatttg-gggagg
7505

||||| ||||||| ||| ||| ||| ||| |||
Sbjct: 27268212 cacacatgacgactacaaatcattaaataataaaaatagaaataaaataaattgcgggtgg
27268271

Query: 7506 ggggt-----cttcaaaaacttgattcaagggttcattgtatcatcgaggatttcacccaaac
7560

|||| ||| ||||| ||||||| ||| ||||| ||||| |||||
Sbjct: 27268272 ggggtgggttcttaaaaactcgattcaagggttcattgcttcatcaaggatttcaccaa
27268331

Query: 7561 cctccaaattcaaagagcttgcagaaaactgggtgggtggttgcatatgtttatgtgggtg
7620

||||| ||||| ||| ||| ||||| ||||| ||||| |||||
Sbjct: 27268332 cctccaaattcaaagagctggcaaaaattgggtgggtggatgtgcacatgtttagggtgggtg
27268391

Score = 135 bits (68), Expect = 1e-28
Identities = 110/124 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| ||||||| ||||| ||||| ||| | ||||| |||||
Sbjct: 28430019 aaaattaattgtcacaaaatttattatttaaatttacatggatattaaatatatattaga
28430078

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||| ||||| ||||| ||| | ||||| ||||||| ||||||| ||||| |||
Sbjct: 28430079 aatttttagtattatatatagtaacattatttattttataacataattgatttattagctc
28430138

Query: 5237 agtt 5240
|||
Sbjct: 28430139 agtt 28430142

Score = 135 bits (68), Expect = 1e-28
Identities = 113/128 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| ||||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 46518119 aaaattaattgtcacaaaatttattatTTTaaatttacatgcacactaaatatacattaaa
 46518178

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
 5236

||||| ||||||||| ||| | ||||| ||||||||| ||||||| | ||||||| ||
 Sbjct: 46518179 aattatagtggttatatatagcaatattatTTTataatataattgggtctattagctc
 46518238

Query: 5237 agttgggtt 5244

|||||||
 Sbjct: 46518239 agttgggtt 46518246

Score = 135 bits (68), Expect = 1e-28
 Identities = 140/164 (85%), Gaps = 5/164 (3%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaaatatacattaga
 5176

||||| ||||||||| ||||||||| ||||| ||||| || ||||||||| |||||
 Sbjct: 46570972 aaaattaattgttacaaaatttattatcatctaat-----atgcgcattaaatataatattaga
 46570918

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
 5236

||||| ||||||||| || || || ||||| ||||||||| ||||||||| ||||| ||
 Sbjct: 46570917 aatttttagtggttatatataacgacattaatcattttataacataattgacctattagctc
 46570858

Query: 5237 agttgggttagagcattatggttaataatgtgaaagtcaaaagttc 5280

||||| ||||| || ||||| ||||||||| |||||
 Sbjct: 46570857 agttgggttagaacattgtgctaataacatgaaagtcacaagttc 46570814

Score = 135 bits (68), Expect = 1e-28
 Identities = 175/211 (82%), Gaps = 6/211 (2%)
 Strand = Plus / Plus

Query: 5131 caaaatttattatctaaatttgcacacataaaatatacattagaaatttttagtggttat
 5190

||||| ||||||||| ||||| | ||||||||| ||||||||| |||||
 Sbjct: 55709038 caaaatttatcatctaaatttacatgtgtattaaatatacattagaaattttattgttac
 55709097

Query: 5191 atttagtgaattaattatattttataacataattgatgtattagttcagttgggttagagca
 5250

Sbjct: 55709098 atatagcgacattagttatattttataacataattgacttattagttcaattgggttagagc-
 55709156

Query: 5251 ttatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaatt
 5310

Sbjct: 55709157 -----ttaataacctgaaagttacaggtttgattcctgcatgggacattaatttttaaatt
 55709211

Query: 5311 aatttgtaaaatatatttttgaaaaaaaat 5341

Sbjct: 55709212 aattttataaaaacatatatttttgaaaataaaat 55709242

Score = 133 bits (67), Expect = 6e-28
 Identities = 184/223 (82%)
 Strand = Plus / Minus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatta
 5174

Sbjct: 3914096 aaaaaattaattgtcgcaaaaatttattatgtaaatttacatgtgcatttaatacatta
 3914037

Query: 5175 gaaatttttagtggttatatttagtgaaattaattatattttataacataattgatgtattagt
 5234

Sbjct: 3914036 aaaatttttagtggttatatatagcgacattaatttttttataacatgattatcctattacc
 3913977

Query: 5235 tcagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggga
 5294

Sbjct: 3913976 ttagttgggttagattgttggtgctaataatgtaaaagtcatatgttcgaatcctgtatggg
 3913917

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaa 5337

Sbjct: 3913916 ccattaatttttaaattaatttgtaaaatatatttttttaaaaaaa 3913874

Score = 133 bits (67), Expect = 6e-28
 Identities = 167/199 (83%), Gaps = 1/199 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

|||||

Sbjct: 45948427 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 45948486

Query: 5177 aatttttagtggttatatttagtgaaattaatta-ttttataacataattgatgtattagtt
 5235

|| |||||

Sbjct: 45948487 aaatttagtggttatgtataacaacattatttattttataacataattgacttattaact
 45948546

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggt
 5295

|| ||| |||||

Sbjct: 45948547 cacttgcttagagcattgtgctaataactgaaaagtcacatgttcgattcttatttgaac
 45948606

Query: 5296 cattaatttttaaattaatt 5314

|||||

Sbjct: 45948607 cattaatttttaaattaatt 45948625

Score = 129 bits (65), Expect = 9e-27
 Identities = 65/65 (100%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||

Sbjct: 27126021 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 27126080

Query: 1703 tcaag 1707

||||

Sbjct: 27126081 tcaag 27126085

Score = 129 bits (65), Expect = 9e-27
 Identities = 270/335 (80%), Gaps = 5/335 (1%)
 Strand = Plus / Minus

Query: 7418 caaacacccagtgatacaacaatgaacaacacacatgacaactacaaatcattaataat
 7477

|||||

Sbjct: 24895130 aaataaaattgggggagttttccttcaaagctcgattcaagggttcattgcttcatcaaggt
24895189

Query: 5192 tttagtgaaattaattatttttataacataattgatgtattagttcagttggttagagcat
5251

```
Query: 5117      aaaattaattgttacaaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176           |||
Sbjct: 52741066 aaaattaattattacaaaaattttattatttaaatttacattgcgcattaaatatacattaaa
52741007
```

```
Query: 5116      aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacatag
5175            |||
Sbjct: 50578470 aaaaattaattatcacaaaatttattatgttaaatttacatgtgcattaaatatatattaa
50578529
```

Sbjct: 46185649 aattttggtggttatatatattgtaacattatattttataatataaatgatctattagttc
46185708

Query: 5237 agttgggtt 5244
|||||||
Sbjct: 46185709 agttgggtt 46185716

Score = 117 bits (59), Expect = 3e-23
Identities = 84/91 (92%), Gaps = 1/91 (1%)
Strand = Plus / Minus

Query: 4786 aataataattaataagtaataatTTTTtatcaatatcatagctttgtttagaaaaaaga
4845
||||| ||||||||||||||| |||| | | ||||||||||||||||||||| |||||||
Sbjct: 35607239 aataacaattaataagtaacaattcttcaccaatatcatagctttgtttag-aaaaaaga
35607181

Query: 4846 gatttaataattaatagctaaagaaatccaa 4876
||||||| |||||||||||||||||||||
Sbjct: 35607180 gatttaatagttaatagctaaagaaatccaa 35607150

Score = 117 bits (59), Expect = 3e-23
Identities = 128/151 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||||||||| ||||||||||||| || ||||||| |||| | |||||||||||||||||
Sbjct: 50731036 aaaattaattgtcacaaaatttataatttaaatttacatgtgcattaaatatacattaga
50730977

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
5236
||||||| ||||||||| || | | |||| | ||||||||||||||||||||| | ||||| |
Sbjct: 50730976 aattttattgttatatataataacattatTTTataacataattagtctattaactt
50730917

Query: 5237 agttgggttagagcattatgttaataatgtga 5267
||||| ||||||| ||| ||||||||| |||||
Sbjct: 50730916 agttgattagagtattgtgttaataacgtga 50730886

Score = 117 bits (59), Expect = 3e-23

```
Query: 5177      aat ttt agt gtt ata tt ttagt ga aa tta att at ttt tata acata attga 5225
                ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 45948099 aat tttaat gt tatgt ata gcaac att at tttatt ttt tata acata attga 45948051
```

Score = 113 bits (57), Expect = 5e-22
Identities = 96/109 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
 |||||
Sbjct: 52810851 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatagattata
52810792

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||||
Sbjct: 52810791 aatttttagtattatatataacgacattaattattttataacataattga 52810743

Score = 111 bits (56), Expect = 2e-21
Identities = 98/112 (87%)
Strand = Plus / Minus

Query: 5162 taaataacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 |||||
Sbjct: 2373467 taaataatatttagaaatttttagtattatacatagtgatattaattattttttaataataa
2373408

Query: 5222 ttgatgtattagttcagttgggttagagcattatggttaataatgtgaaagtca 5273
 |||||
Sbjct: 2373407 ttgatttattagtttagttgggttagaacattgagctaataatatgaaagtca 2373356

Score = 111 bits (56), Expect = 2e-21
Identities = 59/60 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttcgccataatgttcta
1702
 |||||
Sbjct: 2655043 aacgccttatcccactaggtggggctcggctacatggatcaacttcgccataatgttcta
2654984

Score = 111 bits (56), Expect = 2e-21
Identities = 126/148 (85%), Gaps = 1/148 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 52370893 aaaattaattggttacaaaatttattatgtaaacttatatgtgtattaaatatacattaaa
52370834

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 52370833 aaatttagtattatatatac-gaaattaattattttataacataattgggtctattagttc
52370775

Query: 5237 agttggtagagcattatggttaataatg 5264
|||
Sbjct: 52370774 aatttattaaagcatcgtggttaataatg 52370747

Score = 109 bits (55), Expect = 8e-21
Identities = 106/123 (86%)
Strand = Plus / Plus

Query: 5118 aaattaattggttacaaaatttattatctaaatttgcacataaatatacattagaa
5177

|||||
Sbjct: 3523082 aaattaattatcacaaaatttattatggttaattacatgtgcattaaatatacattaaaa
3523141

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
5237

|||||
Sbjct: 3523142 attttagtattatatatagtgacattaattattttataatataattagtttattaattca
3523201

Query: 5238 gtt 5240
|||
Sbjct: 3523202 gtt 3523204

Score = 109 bits (55), Expect = 8e-21
Identities = 100/115 (86%)
Strand = Plus / Plus

Query: 5134 aatttattatctaaatttgcacataaatatacattagaaatttttagtggttatatt
5193

|||||
Sbjct: 52811200 aatttattatgtaaatttacatgtgcattaaatatacactagaagtttttagtggttatata
52811259

Query: 5194 tagtgaaattaattatTTTTataacataattgatgtattagttcagttggttagag 5248
 ||| | |||||||||||||| |||||||| |||||| |||||| ||||||
 Sbjct: 52811260 tagcaatattaattatTTTTataatataattgatctattagctcagttgattagag
 52811314

Score = 107 bits (54), Expect = 3e-20
 Identities = 168/204 (82%), Gaps = 9/204 (4%)
 Strand = Plus / Minus

Query: 5115 aaaaaattaattgtta---caaaatttattatctaaatttgcattgcacaataaa-tatac
 5170
 |||||||||| ||| |||||||||| |||||| ||| || ||| ||||
 Sbjct: 691890 aaaaaattaattattaggtcaaaatttattatgtaaatttacatgtgcattaaaatatac
 691831

Query: 5171 attagaaatTTtagtgTTtatatttagtgaaattaattatTTTataacataattgatgtat
 5230
 |||| |||||| |||| || || |||||||||| |||||| || |||
 Sbjct: 691830 attataaattTTtagtattatatatagcgacattaattatTTTataacataattggtctat
 691771

Query: 5231 tagttcagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttact
 5290
 ||| | |||| |||| || || |||||| || || ||| | |||||| |||
 Sbjct: 691770 tagcttagttgattagag-----tgctaataatgcaaagtgcacatgttcaattcttgtt
 691716

Query: 5291 tggatcattaattTTTaaattaatt 5314
 || |||||| ||||||
 Sbjct: 691715 tgagccattaattTTTaaattaatt 691692

Score = 107 bits (54), Expect = 3e-20
 Identities = 90/102 (88%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176
 |||||| |||||| |||| || || |||||| ||||||
 Sbjct: 18969812 aaaattaattgtcacaaaatttattatgcaaacttaaatgtgcattaaatatacattaga
 18969871

Query: 5177 aattTTtagtgTTtatatttagtgaaattaattatTTTataaca 5218
 |||||| ||| || |||||| ||||||

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaaatatacattaga
5176

|||||
Sbjct: 7585278 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatgtacattaga
7585219

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 7585218 aatttttagtggttatgtatatcagcattatttattttataatgtaattgggtcattagttc
7585159

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273

|
Sbjct: 7585158 aattggtaaagtgttatgttaataacatgaaagtca 7585122

Score = 105 bits (53), Expect = 1e-19
Identities = 113/133 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176

|||||
Sbjct: 16739397 aaaattaattgttacaaaatttattatgttaaacttatatgtgtattaaatatacattaga
16739456

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||| ||| ||||| | || || ||||| ||| ||||| ||||| ||||| |||||
Sbjct: 16739457 aatgttattgttatgtataacgacgttaattactttttaacataattgatctattagttc
16739516

Query: 5237 agttggtagagc 5249

|
Sbjct: 16739517 atttggtagagc 16739529

Score = 105 bits (53), Expect = 1e-19
Identities = 256/323 (79%), Gaps = 3/323 (0%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttggtgtgt
6737

|||||
Sbjct: 24871904 atgcgacacacagaacatcacttttagttgactcggttctcgaatatccattttggtgtgg
24871963

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttggggtggggcaaatt
6797
 ||||| || | || | ||||| | | | || | |
Sbjct: 24871964 atacgagaggaggcaagatggccctttgaatttcttttcctgtctaggtcggggcaagtc
24872023

Query: 6798 cttggcttgtagacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857
 ||||| ||||| ||||| | |||| | || | || | |
Sbjct: 24872024 attggctcgtgacacagtgaccaatacgcttcggtgcacaatttccaaacaatcctcta
24872083

Query: 6858 tacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
6917
 || | || | || | |||| | | || |||| | || | ||||| | || |||| |
Sbjct: 24872084 tatacggttgagacactttttaacatatacacgagatttatgtagttcctgtactcatga
24872143

Query: 6918 tgagcatgcttataaaca---acaacatgagaacaaaacatgtgcattttttgaaatttg
6974
 |||| | || | | ||||| || |||| | || | |||| |
Sbjct: 24872144 tgagtatgcttacaagcagtaataacatgagaacaaggcatgtgcaatccttggaatttg
24872203

Query: 6975 tcacagtcacactacctttcatc 6997
 ||||| ||||| ||||| |||||
Sbjct: 24872204 ccacagtcacatcacctttcatc 24872226

Score = 105 bits (53), Expect = 1e-19
Identities = 131/157 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
 ||||| |||| | || |||| | || | |||| | || | || || | || || |
Sbjct: 50731160 aaaattaattatcacaaaattaattattttaaatttacatgcgcattaaatataatattaga
50731219

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| ||||| || || | || || | || || | || || | || || | || || |
Sbjct: 50731220 aatttttagtggttatataataactacattattttattttataataataacatattaactc
50731279

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtca 5273
 | ||||| || | || || | || || | || || |
Sbjct: 50731280 aattgggttagaatatcatgttgataatgcgaaagtca 50731316

[illegible]

Sbjct: 31891792 ataattttaataaaactatTTTTatgagtaaataaaaaggccttattcttaaatttgctttag
31891851

Query: 5074 ccctctcaagtccttgag 5091
||||||| |||||
Sbjct: 31891852 acctctcaagttcttgag 31891869

Score = 99.6 bits (50), Expect = 8e-18
Identities = 80/90 (88%)
Strand = Plus / Minus

Query: 5135 atttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggttatattt
5194
||||| ||||||||| ||||||| ||||||| || ||||||||| ||||| |
Sbjct: 55708821 atttatcatctaaatttacatgcacattaaatatattggaaatttttagtattatatat
55708762

Query: 5195 agtgaaattaattatTTTataacataattg 5224
|| || ||||||||| |||||
Sbjct: 55708761 agcgacattaattatTTTataatataattg 55708732

Score = 97.6 bits (49), Expect = 3e-17
Identities = 82/93 (88%)
Strand = Plus / Minus

Query: 5133 aaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggttatat
5192
||||||| ||||||| ||| ||| ||||||| ||||||||| |||||||||
Sbjct: 2922583 aaatttattatgtaaatttacatatacattaaatatattagaaatttcagtgttatat
2922524

Query: 5193 ttagtgaaattaattatTTTataacataattga 5225
|| || ||||||||| |||||||||
Sbjct: 2922523 ataacgacattaattatTTTataacataattga 2922491

Score = 95.7 bits (48), Expect = 1e-16
Identities = 112/132 (84%), Gaps = 1/132 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
||||||| || ||||||||| ||||||| |||| || ||||||||| ||

Sbjct: 43823756 ||||| |||||| | | || ||||||||| ||||||||| ||||
43823815 aaatttattatgtaaatttacgtgtgcattaaataacattaaaaatttttagtgctatata

Query: 5194 tagtgaaattaattatTTTTataacataattgatgtattagttcagttgggttagagcatta
5253

||||| || |||||||||||||||||||||||| ||||||| || ||||||| || |||||
Sbjct: 43823816 tagcgacattaattatTTTTataacataattgtcctattagctcggttggtttgagtatta
43823875

Score = 93.7 bits (47), Expect = 5e-16
Identities = 110/131 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176

|||||||||||||||||||||||||||||| ||||| || ||| | ||||||||| ||||| |
Sbjct: 890379 aaaattaattggttacaaaatttattatgtaaacttatatgtgtattaaatataatataaa
890438

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTTataacataattgatgtattagttc
5236

|||||||||||||||||| || | |||||||||||| || ||||||||| ||||||| ||
Sbjct: 890439 aatttttagtggttatatatatcaaccttaattatTTTTtaataataattgatctattagctc
890498

Query: 5237 agttgggttaga 5247

||||| |||||
Sbjct: 890499 agttgattaga 890509

Score = 93.7 bits (47), Expect = 5e-16
Identities = 110/131 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176

||||||| | | |||||||||||||||| ||||||| ||||| || |||||||||||||
Sbjct: 28138448 aaaattaactatcacaaaatttattatgtaaatttacatgcgcattaaatatacattaga
28138389

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTTataacataattgatgtattagttc
5236

||||||||||||||| || || | ||||| ||||||||| ||||||| ||||| ||
Sbjct: 28138388 aatttttagtggttatgtataacaacattatTTTtataatgtaattgactcattagctc
28138329

Query: 5237 agttgggttaga 5247

| |||||||||
Sbjct: 28138328 aattgggttaga 28138318

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 178/220 (80%), Gaps = 4/220 (1%)
 Strand = Plus / Plus

Query: 6799 ttggcttgtagacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttgt
 6858

||||| ||||||| || |||| || |||| ||||||||| ||| |||| | |||
 Sbjct: 29244644 ttggctcgtgacatgatggccaatatacttcggtgcacaattctccaacaatcctctgt
 29244703

Query: 6859 acatggttatagatacttttcagcgtatacacagaatgtatgtagttcctatactcatggt
 6918

| ||||| ||| |||||| | | ||||||| ||||||||| ||| |||||||
 Sbjct: 29244704 atatggttgagacacttttgaacatatacacaggatgtatgtagttctagtactcatggt
 29244763

Query: 6919 gagcatgcttata---aacaacaacatgagaacaaaacatgtgc-attttttgaaatttg
 6974

| ||||||| | | ||||||||| ||||||| |||| | ||||||| |||||
 Sbjct: 29244764 taacatgcttacaagtagcaacaacatgagaacaaggcatgtacaattttttggaatttg
 29244823

Query: 6975 tcacagtcacactacctttcatctagcttgaccatgaaat 7014

||||||| || ||| ||||| |||||||||
 Sbjct: 29244824 ccacagtcacaccatcttaaacttagtctgaccatgaaat 29244863

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 112/133 (84%), Gaps = 1/133 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

||||||| ||||||||| ||||| || ||| | ||||||| ||| |
 Sbjct: 26371390 aaaattaatggttacaaaatttattatgtaaacttatatgtgtattaaatatacgttata
 26371331

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||||| ||||| || || | ||||||||| ||||||||| |||||||
 Sbjct: 26371330 aatttttagtggttatatatagcgacactaattatttt-taacataattgacctattagttt
 26371272

Query: 5237 agttggttagagc 5249

|||||
Sbjct: 35607021 ataattttaataaaaatattttatgagtaaaataaaagggtctcattcttaaatttgctttaa
35606962

Query: 5074 ccctctcaagtccttgagccgcccc 5098
|| ||||| |||||
Sbjct: 35606961 gtctttcaagtctttgagccgcccc 35606937

Score = 87.7 bits (44), Expect = 3e-14
Identities = 44/44 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaactt 1686
|||||
Sbjct: 32034260 aacgccttatcccactaggtggggtcggctacatggatcaactt 32034303

Score = 87.7 bits (44), Expect = 3e-14
Identities = 114/135 (84%), Gaps = 3/135 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||| ||| ||||| ||||| ||| || |||||
Sbjct: 52845613 aaaattaattgtcacaa--tttattatttaaatttacatatgcattaaatatacattaaa
52845670

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|| ||||| ||| || ||||| ||||| |||||
Sbjct: 52845671 aagtttagtggttatgtataacaacattattta-tttataacataattgatctattagttc
52845729

Query: 5237 agttggtagagcat 5251
|||| |||||
Sbjct: 52845730 agttgattagagcat 52845744

Score = 85.7 bits (43), Expect = 1e-13
Identities = 74/83 (89%), Gaps = 1/83 (1%)
Strand = Plus / Plus

Query: 4816 caatatcatagctttgtttagaaaaaagagatttaataattaatagctaaagaaatcca
4875
||||| ||| ||||| ||||| ||||| |||||
Sbjct: 7299286 caatatcataactttatttagaaaaa-gagatttaatagtttaatagctaaaaaatcta
7299344

Query: 4876 aaagtttttcttttatttttatt 4898
|| |||||
Sbjct: 7299345 aatttttttcttttatttctatt 7299367

Score = 85.7 bits (43), Expect = 1e-13
Identities = 138/169 (81%), Gaps = 3/169 (1%)
Strand = Plus / Minus

Query: 6849 aatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttccta
6908
|||||
Sbjct: 10984864 aatcatttgtatacggttgagacactttccaatgtatacacatgatgtatgtaatttcta
10984805

Query: 6909 tactcatgggtgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttt
6965
|||||
Sbjct: 10984804 tactcatgatgagcatgcttacaagcagcaacaacatgagtacaaggcatgtgcaacttc
10984745

Query: 6966 tgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaat 7014
|| |||||
Sbjct: 10984744 tgtaatttggcacagtcacaccatctttcatccagcatgatcgtgaaat 10984696

Score = 85.7 bits (43), Expect = 1e-13
Identities = 58/63 (92%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacatgcacataaataacattagaaatttttagtggtta
5189
|||||
Sbjct: 37708030 acaaaatttattatgtaaatttgcacatgtacattaactataaattagaaatttttagtggtta
37707971

Query: 5190 tat 5192
|||
Sbjct: 37707970 tat 37707968

Score = 85.7 bits (43), Expect = 1e-13
Identities = 49/51 (96%)
Strand = Plus / Plus

Query: 5287 tacttggatcattaattttaaattaatttgtaaaatatatTTTTGAAAAA 5337
 |||||
 Sbjct: 46571274 tacttggatcattaattttaaattatTTTgtaaaacatatTTTgAAAAA 46571324

Score = 83.8 bits (42), Expect = 5e-13
 Identities = 87/102 (85%)
 Strand = Plus / Plus

Query: 5201 attaattatTTTataacataattgatgtattagttcagttggtagagcattatgttaat
 5260
 |||||
 Sbjct: 5003046 attatTTatTTTataacttaattgggtcattagctcagttggtagagcattatgcta
 5003105

Query: 5261 aatgtgaaagtcaaaagttcaattcttacttggatcattaat 5302
 || |||||
 Sbjct: 5003106 aacctgaaagtcacaggttcgattcttacttgggccattaat 5003147

Score = 83.8 bits (42), Expect = 5e-13
 Identities = 108/129 (83%), Gaps = 2/129 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
 5176
 |||||
 Sbjct: 29483308 aaaattaattcttacaaaatttattatgtaattat--atgtgtattaaatatacattaaa
 29483365

Query: 5177 aatTTtagtgTTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 29483366 aatTTtagtgTTtatatatagtaacgttaattatTTTtaacataatttacatattagctt
 29483425

Query: 5237 agttggTTa 5245
 |||||
 Sbjct: 29483426 agttggTTa 29483434

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 56/61 (91%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||| |
Sbjct: 49141725 aaaactaattggttacaaaatttattatataatatttatatgtatattaaatatatattaga
49141666

Query: 5177 aatttttagtggttatatttagtgaaattaattatttta 5213
||||||| |

Sbjct: 49141665 aatttttagtattatataacgatattaattatttta 49141629

Score = 81.8 bits (41), Expect = 2e-12
Identities = 98/117 (83%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175

|||||| |
Sbjct: 52597212 aaaaatttattattataaaaatttattatataaatttacatgtacattaaatatatacat
52597153

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta
5232

||| ||| |
Sbjct: 52597152 aaaaattaatggttatatatgacgatgttaattaattttataacataattgatctatta
52597096

Score = 79.8 bits (40), Expect = 7e-12
Identities = 120/146 (82%), Gaps = 3/146 (2%)
Strand = Plus / Plus

Query: 6872 acttttcagcgtatacacagaatgtatgtagttcctataactcatgggtgagcatgcttata
6931

|||| |
Sbjct: 4485325 actttccaacgtatacatgagatgtatgtaatttctgtactcatgatgaacatgcttaca
4485384

Query: 6932 aa---caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
6988

|
Sbjct: 4485385 actagcaacaacatgagaacaagtcatgtgaaacttttggaatttgccacaatcacacca
4485444

Query: 6989 cctttcatctagcttgaccatgaaat 7014

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacat-tag
5175
||||| | ||||||||||||| ||||||| ||| | ||||||||| || |
Sbjct: 51522938 aaaattaattatcacaaaatttattatttaaatttatatgcgcattaaatatatataa
51522997

Query: 5176 aaatTTtagtggttatatttagtgaaattaattatTTTataacataatt 5223
||||| ||||| || | ||| |||||||||||||
Sbjct: 51522998 aaatTTtagtattatatataataatattattTTTataacataatt 51523045

Score = 77.8 bits (39), Expect = 3e-11
Identities = 75/87 (86%)
Strand = Plus / Plus

Query: 6580 aaaatattTaaatttgaaataataacaacaaaaattTtaaatacaaacatatggcataa
6639
||||| ||||||||||||| ||||||||||||| ||| ||||||||| ||||| | ||
Sbjct: 4485011 aaaatattTaaatttgaaataataacaacaaaaattTtaaatacaaacatatgacttat
4485070

Query: 6640 aattaatgTtggttgagcctgagcctaca 6666
| | || ||||||||| |||||||||
Sbjct: 4485071 attcaacgTtggttgagcctgagcctaca 4485097

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| | ||||||||||||| ||||||| ||| | |||||||||||||
Sbjct: 21902252 aaaattaattatcacaaaatttattatttaaatttacatgtgcattaaatatattaga
21902311

Query: 5177 aatTTtagtggttatatttagtgaaattaattatTTTataacataatt 5223
| ||||| ||||| || | ||| ||||||||| |||||||||
Sbjct: 21902312 atcTTtagtattatatatatcaacattatttattTTTataacataatt 21902358

Score = 77.8 bits (39), Expect = 3e-11
Identities = 96/115 (83%)
Strand = Plus / Plus

Query: 7641 aactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacatagtaattatttcc 7700
||||| ||||||||| | ||||| ||||||| || || ||||||||||||||||| ||||| ||
Sbjct: 27269390 aacttaaggcatgtaagggtggagagttgcctgaacatagaaaacatagtcattacatca 27269449

Query: 7701 tcacatcatcttgcagcatacatgccctgtactgaaaacaatcaccaacaaatgata 7755
||||||| ||||| || ||||||||||||| | | |||||||||||||||||
Sbjct: 27269450 tcacatcatcgtgcagtatgcacgccctgtactagacataatcaccaacaaatgata 27269504

Score = 77.8 bits (39), Expect = 3e-11
Identities = 108/131 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga 5176
||||||| || | ||||||||||||| ||||||| ||| ||| ||||| || ||||| |
Sbjct: 52968309 aaaattaattttcataaaaatttattatgtaaatttatatggacattaaatgtatattaaa 52968368

Query: 5177 aatttttagtgattatatttagtgaaattaattatttttataacataattgatgtattagttc 5236
| ||||||| ||||||| || || ||||||||||||||||| ||||||| | |||||||||
Sbjct: 52968369 agtttttagtcttatatatatcgacattaattatttttataatataattaacttattagttc 52968428

Query: 5237 agttgggttaga 5247
|||||||
Sbjct: 52968429 tattgggttaga 52968439

Score = 75.8 bits (38), Expect = 1e-10
Identities = 59/66 (89%)
Strand = Plus / Minus

Query: 5275 aagttcaattcttacttggatcattaatttttaaattaatttgtaaaatatatttttgaaa 5334
||||||| ||| || ||| || ||||||||||||||||| |||||||||||||||||
Sbjct: 351318 aagttcgattattgcttagaccattaatttttaaattaatttgtaaaatatatttttgaaa 351259

Query: 5335 aaaaaa 5340
|||||
Sbjct: 351258 gaaaaa 351253

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 74/86 (86%)
 Strand = Plus / Minus

Query: 6582 aatatttaaatttgaaataataacaacaaaaattttaaaatacaacaatatggcataaaa
 6641
 |||
 Sbjct: 10985153 aatatttaaatttgaaataataacaacacaattatatagatacaacaatatggcatacat
 10985094

Query: 6642 ttaatggttggtggcctgagcctacac 6667
 |||
 Sbjct: 10985093 tcaacggttggtggcgtgagcctacac 10985068

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 53/58 (91%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacat
 5174
 |||
 Sbjct: 18545807 aaaattaattgaaacaaaatttattatctaaatttgcattgcacaataaatatacat
 18545750

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 56/62 (90%)
 Strand = Plus / Minus

Query: 5130 acaaaaatttattatctaaatttgcattgcacaataaatatacatgaaatttttagtggtta
 5189
 |||
 Sbjct: 47367376 acaaaaatttattatataaaatttgcattgcacaataaatatacatgaaatttttagtggtta
 47367317

Query: 5190 ta 5191
 ||
 Sbjct: 47367316 ta 47367315

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 55/61 (90%)

Strand = Plus / Minus

Query: 5130 acaaaatattattatctaaatttgcacatgcacaataaataacattagaaatatttagtggtta
 5189
 ||||||||||||||| |||||| | || | ||||||| ||| |||||||||||||
 Sbjct: 351428 acaaaatattattatgtaaatttacatgtacattaaatataaaattaaaaatatttagtggtta
 351369

Query: 5190 t 5190
 |
 Sbjct: 351368 t 351368

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 151/189 (79%)
 Strand = Plus / Plus

Query: 7033 ctctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
 7092
 ||||||| ||| ||||||||||| || |||||| | ||||||| |||||||||||
 Sbjct: 27245976 ctctctcgggtttattgtctcctggaccaagaatcgtgtgtcgcacatcgatcgaactcaag
 27246035

Query: 7093 aacaatgtgagagtttgccttttctgtatgtctttcatagccttggttaataacttttgt
 7152
 || ||||||| ||| |||| ||||| |||| | || | ||||||| |||| |
 Sbjct: 27246036 aataatgtgattatttgtctttctctgtgcatcttcaatgggtcttggttagtacttgcac
 27246095

Query: 7153 ataaacttcaccaaataatcactcttgcgacttctctcccccttttggttgaacaatgc
 7212
 ||||| || |||| |||||| | | ||| ||||||||||||| ||| |||||||||||
 Sbjct: 27246096 ataaatttgaccagatgtaaaaattgttgtgacttctctcccttttttattgaacaatgc
 27246155

Query: 7213 attacacct 7221
 |||||||||
 Sbjct: 27246156 attacacct 27246164

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 49/53 (92%)
 Strand = Plus / Plus

Query: 5289 cttggatcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaaat 5341
 ||||||||||||||||||||| | |||| |||||||||||||||||||||

Sbjct: 37708793 cttggatcattaatTTTaaattaaatcataaattatTTTTtgaaaaaaaat
 37708845

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 70/81 (86%)
 Strand = Plus / Minus

Query: 5014 ataattTTTaataaattatTTTatgaataaataaaaaggTTTTattcTTaaatttgcttgag
 5073

Sbjct: 40045660 ataattTTTaataaaactatTTTatgagtaaataaaaaaacctcttTcTTaaatttgTTTTag
 40045601

Query: 5074 ccctctcaagtccttgagccg 5094
 Sbjct: 40045600 gcctctcaagtccttgagccg 40045580

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 79/93 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

Sbjct: 45432281 aaaactaattgtcacaaaatttattatataaaatttatatgtacattaaatatacattaaa
 45432340

Query: 5177 aatttttagtggttatatttagtgaaattaattat 5209
 Sbjct: 45432341 aaatttaattggttatatataacgatattaattat 45432373

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 89/105 (84%), Gaps = 1/105 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

Sbjct: 54737911 aaaattaattatcataaaaatttattatTTTaaatttatatgtacattaaatataatataaa
 54737970

Query: 5177 aat-ttttagtggttatatttagtgaaattaattatTTTataacata 5220

|||||
Sbjct: 54737971 aatatttagtggttatataataataattattttattttataacata 54738015

Score = 71.9 bits (36), Expect = 2e-09
Identities = 66/76 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 890279 aaaattaattgttacaaaatttattatgttaaacttatatgtgtattaagtatacattaga
890220

Query: 5177 aatttttagtggttatat 5192
|||||
Sbjct: 890219 aatttttagtgatatat 890204

Score = 71.9 bits (36), Expect = 2e-09
Identities = 75/88 (85%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221

|||||
Sbjct: 1525027 taaatataatataaaaacttttagtgattatatataggaaaattaattattttataaatatca
1524968

Query: 5222 ttgatgtattagttcagttggtagagc 5249
|||
Sbjct: 1524967 ttggcctattagctcagttggtagagc 1524940

Score = 69.9 bits (35), Expect = 7e-09
Identities = 35/35 (100%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttt 5329
|||||
Sbjct: 28430159 tcattaatttttaaattaatttgtaaaatatatttt 28430193

Score = 69.9 bits (35), Expect = 7e-09

Identities = 98/119 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||||||||||||||||||||| ||| || | | |||||| |||| |
Sbjct: 54852265 aaaattaattggttacaaaatttattatataaaacttatatgtgtattgaatataaattata
54852324

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 |||| |||| |||||| || ||| |||||||||| ||| |||||| || |||||||||
Sbjct: 54852325 aattatagttattatatataatgatgttaattattttttaataataattaatttattagtt
54852383

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/54 (90%)
Strand = Plus / Plus

Query: 5014 ataattttaataaaattattttatgaataaataaaaagggttttattcttaaatttg 5067
 |||||||||||||| |||||||||| |||||||||| || ||| |||||||||
Sbjct: 7302571 ataattttaataaaactattttatgagtaaataaaaagggtctcatttttaatttg 7302624

Score = 65.9 bits (33), Expect = 1e-07
Identities = 51/57 (89%)
Strand = Plus / Plus

Query: 5014 ataattttaataaaattattttatgaataaataaaaagggttttattcttaaatttgctt 5070
 |||||||||||||| |||||||||| |||||||| | |||||||||||||||||
Sbjct: 6352512 ataattttaataaaattattttatgagtaaataaaattcatcattcttaaatttgctt
6352568

Score = 65.9 bits (33), Expect = 1e-07
Identities = 60/69 (86%)
Strand = Plus / Plus

Query: 7300 catcgccagccaccatcccatgagagtgccacttttcttggtggaatcttcctaagctaa
7359
 ||||| |||||||||||||| |||||| |||||| |||||| || ||||| |||
Sbjct: 24944137 catcgtcagccaccatcccatgtaagagtgccatttttctcggtggaatttcactaagccaa
24944196

Query: 7360 ttaattggt 7368
 |||||
Sbjct: 24944197 ttaattggt 24944205

Score = 65.9 bits (33), Expect = 1e-07
Identities = 75/88 (85%), Gaps = 2/88 (2%)
Strand = Plus / Minus

Query: 6580 aaaatatttaaatttgaaataatacaacaaaaattttaaaatacaacaatatggcataa
6639
 |||||
Sbjct: 27904313 aaaatatttaaatttgaattaatacaacaaaaattttacaaatacaa--aaaattaaataa
27904256

Query: 6640 aattaatggtggtggcctgagcctacac 6667
 |||||
Sbjct: 27904255 attcaatggtggtggcctgagcctacac 27904228

Score = 65.9 bits (33), Expect = 1e-07
Identities = 51/57 (89%)
Strand = Plus / Plus

Query: 7183 gacttctctccccctttggttgaacaatgcattacacctagtatagggtgattttac
7239
 |||||
Sbjct: 32429529 gacttctctccctcttttgggtgaacaatgcattacaccttagatatggtgattttac
32429585

Score = 65.9 bits (33), Expect = 1e-07
Identities = 45/49 (91%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattatatttatgaataaataaaagggtttattcttaa 5062
 |||||
Sbjct: 47982383 ataattttaataaactatatttatgagtaaaataaaagatcttattcttaa 47982335

Score = 63.9 bits (32), Expect = 4e-07
Identities = 35/36 (97%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatattttt 5330
 |||||||||||||||||| ||||||||||||||||||
Sbjct: 890109 tcattaatttttaaattatttttgtaaaatatatattttt 890074

Score = 63.9 bits (32), Expect = 4e-07
Identities = 44/48 (91%)
Strand = Plus / Minus

Query: 5202 ttaattattttataacataattgatgtattagttcagttggttagagc 5249
 |||||||||| |||||||||| | ||||| ||||||||||||||||
Sbjct: 974386 ttaattattttttaacataattgggtttattagctcagttggttagagc 974339

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Plus

Query: 6431 tcctttgtatttttattttatttgattattataataacata 6470
 |||||||||||||||||| |||||||||||||| |||||||
Sbjct: 24871652 tcctttgtatttttatttaatttgattattaaaatacata 24871691

Score = 63.9 bits (32), Expect = 4e-07
Identities = 41/44 (93%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatatttaaattacaaaatagatat 6559
 ||||||||| |||||||||||||||||||||||||||| || ||||
Sbjct: 26540551 acaagttgaattgaactaaaatatatttaaattacaatatatatat 26540508

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Plus

Query: 6431 tcctttgtatttttattttatttgattattataataacata 6470
 |||||||||||||| |||||||||||||||||| |||||||
Sbjct: 29244286 tcctttgtatttttcattttatttgattattaaaatacata 29244325

Score = 62.0 bits (31), Expect = 2e-06
Identities = 40/43 (93%)

Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtggggctcggctacatggatca 1682
 ||||| ||||||||||||||||||| || |||||||||||||||
Sbjct: 1311807 acaaaagccttatcccactaggtgaggttggctacatggatca 1311765

Score = 62.0 bits (31), Expect = 2e-06
Identities = 124/155 (80%)
Strand = Plus / Plus

Query: 7085 aactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttgtttaat
7144
 ||||||||||| ||||| ||||||||||| ||||| ||||| || ||||||||||| |
Sbjct: 24872310 aactcaagaacagcgtgagtgttgcctttctgtgcgtcttcaatggccttgtttagt
24872369

Query: 7145 acttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttgggtg
7204
 ||||| ||||||| | ||| ||| ||| ||| ||||| || ||||||| ||||| |||||
Sbjct: 24872370 acttgcttataaaacatggccagatgcaagcattgttgagttttctccctcttttggtg
24872429

Query: 7205 aacaatgcattacacctagtataggttgattttac 7239
 ||||||||||||||||||| ||| |||||||||||
Sbjct: 24872430 aacaatgcattacaccttagatatgttgattttac 24872464

Score = 62.0 bits (31), Expect = 2e-06
Identities = 52/59 (88%)
Strand = Plus / Minus

Query: 5282 attcttacttggatcattaattttaaattaatttgtaaaatatatttttgaaaaaaaaa
5340
 ||||||| ||| ||||||||||||||||||| ||||| || |||||||||||||||
Sbjct: 49127626 attcttatttgagtcattaattttaaattaattcataaaacatgtttttgaaaaaaaaa
49127568

Score = 60.0 bits (30), Expect = 7e-06
Identities = 72/86 (83%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221

||||| || |||| | ||||| || || || ||||| ||||| |||||
 Sbjct: 974536 taaatgtatatataaaaatttttagtattatatatatatcgacgttaattatTTTTTaaacataa
 974595

Query: 5222 ttgatgtattagttcagttgggttaga 5247
 ||||| | |||| ||| ||||| |||||
 Sbjct: 974596 ttgatctgttagctcaattgggttaga 974621

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 90/109 (82%), Gaps = 2/109 (1%)
 Strand = Plus / Plus

Query: 7179 ttgcgacttctctccccctttgggtgaacaatgcattacacctagtataggttgatttta
 7238
 ||||| ||||| ||||| ||| ||||| ||||| ||||| ||| || ||||| |||||
 Sbjct: 4485633 ttgcgtcttctctccctttttgttgaacaatgcagtacacctacatatgtggatttta
 4485692

Query: 7239 ccaacacac--attgccagattttgtgttttcttgagtaccaaattaat 7285
 | | ||||| |||| ||||| || ||||| ||||| ||||| |||||
 Sbjct: 4485693 ctagcacacctattggcagatttattgatttcttgagtacgaaattaat 4485741

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 39/42 (92%)
 Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaa 5337
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 21902403 cattaatttttaaattaattcataaaacatatatttttgaaaaaa 21902444

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 42/46 (91%)
 Strand = Plus / Plus

Query: 6884 atacacaagatgtatgtagttcctatactcatgggtgagcatgctta 6929
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 24943760 atacacaagatgtatatagttcttgactcatgatgagcatgctta 24943805

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 51/58 (87%)

Strand = Plus / Plus

Query: 5138 tattatctaaatttgcacatgcacaataaataacattagaaatTTtagtggttatattta
5195
 ||||| ||||| ||| ||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43508573 tattatgtaaatttacatatacattaaatataaaattagaaatTTtaatggttatattta
43508630

Score = 58.0 bits (29), Expect = 3e-05
Identities = 56/65 (86%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtggttatatttagtgaaattaattattttataacataa
5221
 ||||| ||||| ||||| ||| | ||||| ||||| ||||| |||||
Sbjct: 1074013 taaatatacattacaaatTTgttggttatataataatattaattatttttaacataa
1073954

Query: 5222 ttgat 5226
 |||||
Sbjct: 1073953 ttgat 1073949

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Plus

Query: 5301 attttaaattaatttgtaaaatatattttgaaaaaa 5337
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1115826 attttaaattaatttgtaaaattatatattttgaaaaaa 1115862

Score = 58.0 bits (29), Expect = 3e-05
Identities = 42/45 (93%), Gaps = 1/45 (2%)
Strand = Plus / Minus

Query: 6393 tgcataTTTTatgTTTTatcattTTTT-aagagttgaaatccttt 6436
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27737368 tgcataTTTTatgTTTTatcattTTTTaaagagatgaaatccttt 27737324

Score = 58.0 bits (29), Expect = 3e-05
Identities = 56/65 (86%)

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttggtggaatcttcct
 7352
 |||||
 Sbjct: 47270659 gtgtcccatcgtcaccctccatcctatgcgagaatctacttttctcgtagaatcttggt
 47270600

Query: 7353 aagctaattaat 7364
 ||||
 Sbjct: 47270599 aagccaattaat 47270588

Score = 56.0 bits (28), Expect = 1e-04
 Identities = 31/32 (96%)
 Strand = Plus / Minus

Query: 5014 ataattttaataaaattattttatgaataaata 5045
 |||||
 Sbjct: 49047066 ataattttaataaaattattttatgagtaaata 49047035

Score = 56.0 bits (28), Expect = 1e-04
 Identities = 100/124 (80%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 |||||
 Sbjct: 55865925 aaaattttattattataaaaatttattatgttaaacttatacgtatattaaatatacattaaa
 55865866

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 55865865 aatttttagtagtatatatattaacgttaattattttttaataataattgatctattgattc
 55865806

Query: 5237 agtt 5240
 ||||
 Sbjct: 55865805 agtt 55865802

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 33/35 (94%)
 Strand = Plus / Plus

Query: 5296 cattaattttaaaattaatttgtaaaatatatattttt 5330
 |||||||||||||||| |||||||||||||| ||||
Sbjct: 974661 cattaattttaaaattattttgtaaaatatataatttt 974695

Score = 54.0 bits (27), Expect = 4e-04
Identities = 54/63 (85%)
Strand = Plus / Plus

Query: 5130 acaaaaatttattatctaaatttgcatgcacaataaatatacattagaaattttagtggtta
5189
 |||||||||||||| |||||| ||| | | |||||||| |||| ||||||||||||||
Sbjct: 1115658 acaaaaatttattacgtaaatttacatatataattaaatataaaattaaaaattttagtggtta
1115717

Query: 5190 tat 5192
 |||
Sbjct: 1115718 tat 1115720

Score = 54.0 bits (27), Expect = 4e-04
Identities = 52/59 (88%), Gaps = 1/59 (1%)
Strand = Plus / Plus

Query: 7308 gccaccatcccatgcgagagtcacttttcttggtgaatcttcctaagctaattaattg
7366
 |||||||||||||||||||||| |||| || |||||||| | ||||||||||||
Sbjct: 4485781 gccaccatcccatgcgagagtcga-tttttttacggaatcttgccgagctaattaattg
4485838

Score = 54.0 bits (27), Expect = 4e-04
Identities = 110/135 (81%), Gaps = 2/135 (1%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattagttcagttggttagagcattatgttaat
5260
 |||||||||||||| |||||| || |||||| | ||| |||||| || || ||||
Sbjct: 6813312 attaattattttataatataattgacctattagtttaattgattagagtggtgtgcta
6813371

Query: 5261 aa-tgtgaaagtcaaaagttcaattc-ttacttggatcattaattttaaaattaatttgta
5318
 || | |||||||| | ||| |||| || |||| | |||||||||||||| ||

Sbjct: 6813372 aactatgaaagtcataggtttgattctttgtttgaaccattaattttaaattaatccata
6813431

Query: 5319 aaatatatttttgaa 5333
||| |||||
Sbjct: 6813432 aaacatatatttttgaa 6813446

Score = 54.0 bits (27), Expect = 4e-04
Identities = 45/51 (88%)
Strand = Plus / Minus

Query: 7445 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataa 7495
||||| |||||
Sbjct: 27899092 aacacacatgaagactacaaatcattaaataataaaaatagtaatcaaataa 27899042

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
||||| |||||
Sbjct: 27904330 acaagttgaattgaactaaaatatttaaatt 27904300

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5296 cattaattttaaattaatttgtaaaatatatattttt 5330
||||| |||||
Sbjct: 52370716 cattaattttaaattattttataaaaatatatattttt 52370682

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
||||| |||||
Sbjct: 55543354 aaaattaattattacaaaatttattatataaaattt 55543388

Score = 52.0 bits (26), Expect = 0.002
 Identities = 32/34 (94%)
 Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatatattttt 5330
 |||||
 Sbjct: 391249 attaatttttaaattattttataaaaatatatattttt 391282

Score = 52.0 bits (26), Expect = 0.002
 Identities = 73/86 (84%), Gaps = 2/86 (2%)
 Strand = Plus / Minus

Query: 7433 acaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaa
 7492
 |||| |
 Sbjct: 10980104 acaaaaatgaaaaacacagatgactcctacaaatcattaaatgataaaatt-tactcaa
 10980046

Query: 7493 taatttgaggaggagg-tcttcaaaa 7517
 ||| |
 Sbjct: 10980045 taaattgggggggggttcttcaaaa 10980020

Score = 52.0 bits (26), Expect = 0.002
 Identities = 35/38 (92%)
 Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatatttttgaa 5333
 |||||
 Sbjct: 13070836 cattaatttttaaattaattcataaaacatatatttttgaa 13070799

Score = 52.0 bits (26), Expect = 0.002
 Identities = 29/30 (96%)
 Strand = Plus / Minus

Query: 5301 attttaaattaatttgtaaaatatatattttt 5330
 |||||
 Sbjct: 26371207 attttaaattatttttgtaaaatatatattttt 26371178

Score = 52.0 bits (26), Expect = 0.002
Identities = 47/54 (87%)
Strand = Plus / Plus

Query: 7313 catcccatgcgagagtccactttttcttggtggaatcttcctaagctaattaattg 7366
|||||
Sbjct: 27246275 catcccatgcgagagtccattttttcttgcaaaatctcactaagccaattaattg
27246328

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatattttt 5330
|||||
Sbjct: 47149033 attaatttttaaattaatttcgtaaaacatatattttt 47149000

Score = 52.0 bits (26), Expect = 0.002
Identities = 53/62 (85%)
Strand = Plus / Minus

Query: 5130 acaaaattttattatctaaatttgcatgcacaataaatatacattagaaatttttagtgтта
5189
|||||
Sbjct: 54714251 acaaaattttattatataaaatttacatatacattaaatataaaattaaatatttttagtatta
54714192

Query: 5190 ta 5191
||
Sbjct: 54714191 ta 54714190

Score = 50.1 bits (25), Expect = 0.007
Identities = 46/53 (86%)
Strand = Plus / Plus

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaatttttaaatacaaaacaatat 6632
|||||
Sbjct: 328633 aaaatattttaaatttaaattaatataacaaaaattttacaaatacaaaataatat 328685

Score = 50.1 bits (25), Expect = 0.007

Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtg 5186
 |||||
Sbjct: 974415 taaatatacattagaaatttttagtg 974391

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 3115760 gccttatcccactaagtgaggccggctacatggatca 3115724

Score = 50.1 bits (25), Expect = 0.007
Identities = 52/61 (85%)
Strand = Plus / Plus

Query: 5211 ttataacataattgatgtattagttcagttggttagagcattatgttaataatgtgaaag
5270
 |||||
Sbjct: 3385216 ttatgacataattgacttattagctcagttgattaaagcgtcatcttaataatgtgaaag
3385275

Query: 5271 t 5271
 |
Sbjct: 3385276 t 3385276

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 1649 ttatcccactaggtggggtcggctacatggatc 1681
 |||||
Sbjct: 8308740 ttatcctactaggtgaggtcggctacatggatc 8308772

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 5368 gatcatacaaatgaaagagggttcacatatatta 5400
 ||||||| ||||||||| |||||||||
Sbjct: 8381401 gatcataaaaatgaaagaaggttcacatatatta 8381433

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 5541 attgaacttttttttaaaaaaaaaa 5565
 ||||||| ||||||||| |||||||||
Sbjct: 11478390 attgaacttttttttaaaaaaaaaa 11478414

Score = 50.1 bits (25), Expect = 0.007
Identities = 124/157 (78%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||| ||||||||| ||| ||||||||| |||| || ||| | ||||||||| |||||
Sbjct: 26371510 aaaattaattggttataaaatttattatgtaaacttatatgtgtatcaaatacgttaga
26371569

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||| | |||||| ||| || ||||||||| ||| || | ||||| | |||||| |||
Sbjct: 26371570 aatttttgattatatatagcaaagttaattaatttttagcgtaattattctattagctc
26371629

Query: 5237 agttggtagagcattatggttaataatgtgaaagtca 5273
 ||||| ||||| || ||||||||| | |||||||
Sbjct: 26371630 agttgattagaacgtcgtggttaataacgcgaaagtca 26371666

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 6433 ctttgtatttttattttatttgattattataatacat 6469
 ||||||||| || ||||||||| |||||||
Sbjct: 32428773 ctttgtattttcattatatttgattattaaaatacat 32428809

Score = 50.1 bits (25), Expect = 0.007
Identities = 49/57 (85%)
Strand = Plus / Plus

Query: 6720 atatccattttggtgtgtatacgagaggagacatgacaacctttagaatttcttttc
6776
 ||||||||||| |||||| | | |||| | || | ||||||||||||||||||||
Sbjct: 32429066 atatccatttcggtgtgaatttgagaatagataggacaacctttagaatttcttttc
32429122

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Minus

Query: 6885 tacacaagatgtatgtagttcctataactcatggtgagcatgctta 6929
 ||||||||||| |||||| | |||||| | ||||||||||||||||||||
Sbjct: 47271087 tacacaagatctatgtaagccctatattcatggtgagcatgctta 47271043

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Minus

Query: 5208 attttataacataaattgatgtattagttcagttgggttaga 5247
 ||||| ||||||||||| || |||||| | |||||||||||||
Sbjct: 890196 attttttaacataaattaatctattagctcagttgggttaga 890157

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 ||||||||||| |||||| |||||
Sbjct: 1074070 aaaattaattgttacaaaattaattatataaa 1074101

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 |||||
Sbjct: 16739301 aaaattaattattacaaaatttattatataaa 16739270

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggg 1666
 |||||
Sbjct: 39404365 aacgccttatcccactaggtgggg 39404388

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 43852125 ttttttttaaaaaaaaaaaaaaaca 43852148

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 46178163 ttttttttaaaaaaaaaaaaaaaca 46178186

Score = 48.1 bits (24), Expect = 0.026
Identities = 60/72 (83%)
Strand = Plus / Minus

Query: 7085 aactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaatt
7144
 |||||
Sbjct: 47270886 aactcaagaacatggtgagagttggccttttcttgtgcatcttccatagccttgtttatt
47270827

Query: 7145 acttttgtataa 7156
 |||

Sbjct: 47270826 atttctgtataa 47270815

Score = 48.1 bits (24), Expect = 0.026
Identities = 39/44 (88%)
Strand = Plus / Plus

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataa 5221
||||| ||||||| ||||||| ||||||| ||||||| ||| |||
Sbjct: 48088073 attttaatggttatatatagtgacattaattattttttaataaa 48088116

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaacaag 5572
||||| ||||||| ||||||| |||
Sbjct: 51505602 aacttttttttaaaaaaaaaaaaagacaag 51505629

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 4193 aaagttcaaaggatagagaaattgcataagaggga 4227
||||| ||||||| |||||||
Sbjct: 2811904 aaagttcaaaggcagagaaattgaataagaggga 2811938

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5542 ttgaacttttttttaaaaaaaaaa 5564
||||| ||||||| |||||||
Sbjct: 7068107 ttgaacttttttttaaaaaaaaaa 7068085

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaaac 5569
|||||
Sbjct: 11334963 ctttttttttaaaaaaaaaaaaaaac 11334941

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5309 ttaatttgtaaaatatatttttgaaaa 5335
|||||
Sbjct: 19607471 ttaatttgaaaaatatatttttgaaaa 19607497

Score = 46.1 bits (23), Expect = 0.10
Identities = 53/63 (84%)
Strand = Plus / Plus

Query: 6690 gaacatcattttggtttacctgattcttgatatccattttggtgtgtatacagagaggag
6749
|||||
Sbjct: 24943566 gaacatcattttggttgactcgattctaagatatccatttcggtgtagatacaagaagag
24943625

Query: 6750 aca 6752
|||
Sbjct: 24943626 aca 24943628

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaaac 5569
|||||
Sbjct: 26527504 ctttttttttaaaaaaaaaaaaaaac 26527526

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggtatat 5192

|||||
Sbjct: 29078589 taaatatacattaaaaattttattgttatat 29078559

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaacaagt 5573
|||||
Sbjct: 39974424 ctttttttttaaaaaaaaaaaaaaagt 39974398

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 6485 taattgaaattaaaaaatatatattta 6511
|||||
Sbjct: 44722937 taattgaaaataaaaaaatatatattta 44722911

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaattataaaa 5348
|||||
Sbjct: 45183446 aaaatatatttttgagaaaaaaaaattataaaa 45183416

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 2112 catcacataacacccccgatgct 2134
|||||
Sbjct: 47224481 catcacataacacccccgatgct 47224459

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaatga 5354
 |||||
Sbjct: 47316370 aaaaaaaaaattataaaaaaatga 47316392

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 47869336 ctttttttttaaaaaaaaaaaaaaac 47869314

Score = 46.1 bits (23), Expect = 0.10
Identities = 41/47 (87%)
Strand = Plus / Plus

Query: 5741 taaaacatcaaatttgctaaaagatccttaaacctttaattgaaaaat 5787
 ||||| ||||| ||| || |||||
Sbjct: 49671371 taaaatatcaaatttgtaaaataattccttaaacctttaattgaaaaat 49671417

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 49695334 ttttttttaaaaaaaaaaaaaaaca 49695312

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5206 ttatttttataacataattgatgt 5228
 |||||
Sbjct: 51697329 ttatttttataacataattgatgt 51697307

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaca 5570
 ||||||||||||||||||||
Sbjct: 51861670 tttttttttaaaaaaaaaaaaaaca 51861692

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||||
Sbjct: 52458136 ctttttttttaaaaaaaaaaaaaaac 52458158

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5298 ttaatttttaaattaatttgtaaaatat 5324
 |||||||||||||||||| ||||||||
Sbjct: 52811360 ttaatttttaaattaatttcgtaaaatat 52811386

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaca 5570
 ||||||||||||||||||||
Sbjct: 53182267 tttttttttaaaaaaaaaaaaaaca 53182289

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 5536 ttgttattgaactttttttttaaaaaaaaaaa 5566
 |||||||||||||||||| | ||||||||
Sbjct: 54065839 ttgttattgaactttttttttataaaaaaaaa 54065809

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 2583 ataatatattttttttctttctaa 2604
 ||||||||||||||||||
Sbjct: 1164517 ataatatattttttttctttctaa 1164538

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 3751311 ctttttttttaaaaaaaaaaaaaa 3751332

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaacaagtaa 5575
 |||||||||||||||||| | |||||
Sbjct: 4896962 actttttttttaaaaaaaaaaaaatataagtaa 4896991

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 5464 catacaaatgaaagaggttcacatatatta 5493
 |||| |||||||||| ||||||||||
Sbjct: 8381404 cataaaaatgaaagaaggttcacatatatta 8381433

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 4794 ttaataagtaataattttttat 4815

|||||
Sbjct: 10517653 ttaataagtaataatttttttat 10517632

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
|||||
Sbjct: 13320522 tttttttttaaaaaaaaaaaaaaac 13320543

Score = 44.1 bits (22), Expect = 0.41
Identities = 37/42 (88%)
Strand = Plus / Plus

Query: 1641 caaacgccttatcccactaggtggggctcggctacatggatca 1682
|||| | ||||| | ||||| || | ||||| |||||
Sbjct: 29990425 caaatgccttatccaattaggtgaggttggtacatggatca 29990466

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 4008 taatttgtccaatttcattgttcatt 4033
||||| | ||||| ||||| |||||
Sbjct: 31887435 taatttttccaatttcattgttcatt 31887460

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 6269 ttttttgttttgttttaaaattgttt 6294
||||| | ||||| ||||| |||||
Sbjct: 31971107 tttttttttttgttttaaaattgttt 31971132

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 35757297 ctttttttttaaaaaaaaaaaaaa 35757318

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5881 aacgaatgtcgtgtgatatgtg 5902
 |||||
Sbjct: 38852392 aacgaatgtcgtgtgatatgtg 38852371

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 40191652 ctttttttttaaaaaaaaaaaaaa 40191673

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttt 5329
 |||||
Sbjct: 45432395 attaatttgtaaaatatatttt 45432416

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 5297 attaattttaaattaatttgtaaaatat 5326
 ||||| |||||
Sbjct: 47584405 attaattttaaattaatttcataaaatat 47584434

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6490 gaaattaaaaaatatatattta 6511
|||||||
Sbjct: 51262108 gaaattaaaaaatatatattta 51262087

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 51974884 cttttttttaaaaaaaaaaaaaa 51974863

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaa 5333
|||||||
Sbjct: 52722234 attaatttgtaaaacatatatttttgaa 52722259

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaag 5572
|||||||
Sbjct: 1674898 ttttttttaaaaaaaaaaaaaaccaag 1674874

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacaag 5572
|||||||
Sbjct: 1674882 ttttttttaaaaaaaaaaaaaacaag 1674906

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5556 aaaaaaaaaaaaaacaagtaat 5576
 ||||||||||||||||||
Sbjct: 2312871 aaaaaaaaaaaaaacaagtaat 2312851

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 1654 ccactaggtggggtcggctacatggatca 1682
 ||||||||| | ||||||||||||||
Sbjct: 2326451 ccactaggtgagatcggctacatggatca 2326423

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||
Sbjct: 2815632 ttttttttaaaaaaaaaaaaaaac 2815612

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 2976063 ttttttttaaaaaaaaaaaaaaa 2976043

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4880 tttttcttttatttttatttt 4900


```
|||||
Sbjct: 4207057 tttttcttttatttttatttt 4207037
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

```
Query: 7462      caaatcattaaataataacaattacaatcaaata 7494
              |||||
Sbjct: 4491816 caaatcattaaataataaaaataccaatcaaata 4491848
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
              |||||
Sbjct: 5087161 tttttttttaaaaaaaaaaaaaa 5087141
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 6265      ttttttttttgttttgtttta 6285
              |||||
Sbjct: 7275476 ttttttttttgttttgtttta 7275456
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
              |||||
Sbjct: 7429089 tttttttttaaaaaaaaaaaaaa 7429109
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6263 gcttttttttttgttttgttttaa 6287
|||| |||||||||
Sbjct: 8811121 gcttcttttttgttttgttttaa 8811145

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 3889 ttgtaaaaatgatttttttta 3909
|||||||||
Sbjct: 10177485 ttgtaaaaatgatttttttta 10177505

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 5321 atatatttttgaaaaaaaaattataaaaa 5349
||||||| |||||||
Sbjct: 10583923 atatattttttaaaaaaaaaattatcaaaa 10583951

Score = 42.1 bits (21), Expect = 1.6
Identities = 72/89 (80%)
Strand = Plus / Minus

Query: 7133 gccttgtttaatacttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctc
7192
||||||| ||||| ||||||| ||||||| || || | ||||| | |||||
Sbjct: 10984595 gccttgtttagtacttccatataaaacttggccaaatgcaagcattgttgcggcctctctt
10984536

Query: 7193 cccctttggttgaacaatgcattacacct 7221
|| |||| |||||| | |||||||||
Sbjct: 10984535 cctcttttgttgaatagtgattacacct 10984507

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6043 ttttttatccaaataataaaaaaaaa 6067
 ||||||||||| ||||||||||||||||
Sbjct: 14974335 ttttttatcccaataataaaaaaaaa 14974311

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6455 attattataataacataattaa 6475
 ||||||||||| ||||||||||||||||
Sbjct: 16213148 attattataataacataattaa 16213168

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5567
 ||||||||||| ||||||||||||||||
Sbjct: 16767212 ctttttttttaaaaaaaaaaaaa 16767232

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaattaat 6073
 ||||||||||| ||||||||||||||||
Sbjct: 17410824 aaataataaaaaaaaaattaat 17410804

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaat 5352
 ||||||||||| ||||||||||||||||
Sbjct: 18305579 aaaaaaaaaattataaaaaaat 18305599

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)

Strand = Plus / Plus

Query: 7265 tttcttgagtaccaaattaactcag 7293
 ||||| ||||| |||||
Sbjct: 24944085 tttcttgagtaccgaattaattgactcag 24944113

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6292 tttgtatttttatttttttg 6312
 ||||| ||||| |||||
Sbjct: 25219841 tttgtatttttatttttttg 25219861

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 7269 ttgagtaccaaattaactcag 7293
 ||||| ||||| |||||
Sbjct: 26539738 ttgagtaccaaattaattgactcag 26539714

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattag 5233
 |||| ||||| ||||| |||||
Sbjct: 26773470 attatttattttataacgtaattgatttattag 26773438

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 ctttttttttgttttgtttt 6284
 ||||| ||||| |||||
Sbjct: 27490276 ctttttttttgttttgtttt 27490296

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 31061207 aacttttttttaaaaaaaaaa 31061227

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 34835696 ttttttttaaaaaaaaaa 34835676

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 37458533 ttttttttaaaaaaaaaa 37458553

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattta 6511
 |||||
Sbjct: 37461008 aaattaaaaaatatatattta 37460988

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 37814348 ttttttttaaaaaaaaaa 37814368

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 4371 tgctggttgaaaactattttcaaac 4395
 |||||
Sbjct: 38595914 tgctggttgaaaactatttccaaac 38595890

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaattataa 5346
 |||||
Sbjct: 39585773 aaaatatatttaagaaaaaaaaattataa 39585745

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 39979421 cttttttttaaaaaaaaaaaaaa 39979441

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 43075777 tttttttttaaaaaaaaaaaaaa 43075757

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 43250248 tttttttttaaaaaaaaaaaaaa 43250268

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4989 ttatttttactttgatacatta 5009
 ||||||||||||||||||
Sbjct: 43314235 ttatttttactttgatacatta 43314255

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||||||| ||||||||| ||| |||||||||||||
Sbjct: 45445126 gccttatcctactaggtgaggttagctacatggatca 45445090

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5550 tttttttaaaaaaaaaaaaaaaca 5570
 ||||||||||||||||||
Sbjct: 46532232 tttttttaaaaaaaaaaaaaaaca 46532212

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6264 cttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 47450958 cttttttttttgttttgtttt 47450938

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)

Strand = Plus / Minus

```
Query: 6488      ttgaaattaaaaaatatatatttaa 6512
                |||
Sbjct: 48301435 ttgaaattaaaaaatatataattaa 48301411
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 6296      tattttttattttttttgttattaat 6320
                |||
Sbjct: 49176437 tattttttattttttttattattaat 49176461
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 6289      ttgtttgtattttttatttttt 6309
                |||
Sbjct: 49211721 ttgtttgtattttttatttttt 49211701
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

```
Query: 5318      aaaatatatttttgaaaaaaaaattataa 5346
                |||
Sbjct: 50594113 aaaataaatttttgaaaaaaatattataa 50594141
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||
Sbjct: 51079758 ttttttttaaaaaaaaaaaaaa 51079738
```


Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 51086811 tttttttttaaaaaaaaaaaaaa 51086791

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6485 taattgaaattaaaaaatata 6505
 ||||||||||||||||||||
Sbjct: 52683055 taattgaaattaaaaaatata 52683035

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5290 ttggatcattaatttttaaattaatt 5314
 ||||| ||||||||||||||||||||
Sbjct: 52845767 ttggaccattaatttttaaattaatt 52845791

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 54723338 tttttttttaaaaaaaaaaaaaa 54723318

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 54783561 tttttttttaaaaaaaaaaaaaa 54783541

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 54783546 tttttttttaaaaaaaaaaaaaa 54783566

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 311576 tttttttttaaaaaaaaaaaaaa 311557

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 ||||||||| ||||||||||||||
Sbjct: 490975 aactttttttataaaaaaaaaaaaaa 490952

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 ||||||||| ||||||||||||||
Sbjct: 502704 aactttttttataaaaaaaaaaaaaa 502727

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 1114360 ctttttttttaaaaaaaaaa 1114379

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
|||||||
Sbjct: 1799082 aaaaaaaaaattataaaaaaa 1799063

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaa 5567
|||||||
Sbjct: 2473641 ttttttttaaaaaaaaaa 2473660

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattt 5181
|||||||
Sbjct: 2922597 taaatatacattagaaattt 2922578

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaa 5567
|||||||
Sbjct: 3340127 ttttttttaaaaaaaaaa 3340108

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 2581      aaataatatatttttttcttt 2600
              ||||||||||||||||
Sbjct: 3514538 aaataatatatttttttcttt 3514519
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6292      ttgtatttttatttttttt 6311
              ||||||||||||||||
Sbjct: 4325422 ttgtatttttatttttttt 4325403
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5547      cttttttttaaaaaaaaaa 5566
              ||||||||||||||||
Sbjct: 4956917 cttttttttaaaaaaaaaa 4956936
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6265      ttttttttttgttttgtttt 6284
              ||||||||||||||||
Sbjct: 5170446 ttttttttttgttttgtttt 5170427
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 6265      ttttttttttgttttgttttaaaa 6288
              |||| ||||||||||||||||
Sbjct: 5473017 ttttgtttttgttttgttttaaaa 5472994
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||
Sbjct: 6021603 aaaaaaaaaattataaaaaaa 6021584

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5334 aaaaaaattataaaaaaatg 5353
 ||||||||||||||||||
Sbjct: 6253742 aaaaaaattataaaaaaatg 6253723

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 2031 cccaacattctgttccgtacaaaatcgccggt 2062
 |||||| | |||||| |||| ||||
Sbjct: 6952351 cccaacagtctgttccgtacaacatcgtcggt 6952382

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||| |||||
Sbjct: 6957282 ttttttttaaaaaataaaaaaca 6957259

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 |||||| |||||
Sbjct: 7363151 aacttttttttaaaaaaaaaaaaaa 7363128

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 7572954 ttttttttaaaaaaaaaaaaaa 7572935

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 7669517 ttttttttaaaaaaaaaaaaaa 7669536

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5565
 ||||||||||||||||||
Sbjct: 7819532 acttttttttaaaaaaaaaaaaaa 7819513

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 8980868 ctttttttttaaaaaaaaaaaaaa 8980887

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6292 tttgtattttttatttttttt 6311
 |||||
Sbjct: 10592522 tttgtattttttatttttttt 10592503

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5536 ttgttattgaacttttttttt 5555
 |||||
Sbjct: 15187389 ttgttattgaacttttttttt 15187408

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||
Sbjct: 18584683 aaattaaaaaatatatattt 18584664

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6269 ttttttgttttgttttaaaa 6288
 |||||
Sbjct: 18643011 ttttttgttttgttttaaaa 18643030

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaa 5567
 |||||
Sbjct: 20234779 tttttttttaaaaaaaaaaaa 20234798

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 420      tgatttattattgaaaagta 439
              ||||||||||||||||
Sbjct: 20857888 tgatttattattgaaaagta 20857907
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
              ||||||||||||||||
Sbjct: 21242859 ttttttttaaaaaaaaaaaaaa 21242840
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
              ||||||||||||||||
Sbjct: 21475235 ttttttttaaaaaaaaaaaaaa 21475216
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
              ||||||||||||||||
Sbjct: 23595365 ttttttttaaaaaaaaaaaaaa 23595346
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 6053      aaataataaaaaaaaaattaattat 6076
              |||||||||||| ||||||||||||
Sbjct: 24920313 aaataataaaacaaaattaattat 24920336
```


Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatatttaa 6543
 ||||| ||||| ||||| |||||
Sbjct: 24943417 acaagttgaattgaactaaaataattaa 24943444

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaa 5565
 ||||| ||||| ||||| |||||
Sbjct: 25144986 actttttttttaaaaaaaaaa 25144967

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaa 5568
 ||||| ||||| ||||| |||||
Sbjct: 25725541 aacttttctttaaaaaaaaaa 25725518

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 7080 aatcgaactcaagaacaatgtgag 7103
 ||||| ||||| ||||| |||||
Sbjct: 27903791 aatcgaactcaagaacagtgtgag 27903768

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6042 tttttttatccaaataataaaaaa 6065
 ||||| ||||| ||||| |||||
Sbjct: 28112000 tttttttatccaaacaataaaaaa 28111977

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 7404 tttttattataaaacaaacaccca 7427
 ||||||||||||||| |||||||||
Sbjct: 28495085 tttttattataaaaaaacaccca 28495108

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5319 aaatatatTTTTGAAAAAAAAATT 5342
 ||||| |||||||||||||||||
Sbjct: 30681143 aaatatatTTTTGAAAAAAAAATT 30681166

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||
Sbjct: 31452116 ttttttttaaaaaaaaaaaaaa 31452097

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6955 tgtgcattTTTTGAAATTG 6974
 |||||||||||||||||||
Sbjct: 31862984 tgtgcattTTTTGAAATTG 31862965

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 31905734 ctttttttttaaaaaaaaaa 31905753

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6398 attttatgttttatcatttttta 6421
||||| |||||||
Sbjct: 32181506 attttaggttttatcatttttta 32181483

Score = 40.1 bits (20), Expect = 6.4
Identities = 41/48 (85%)
Strand = Plus / Plus

Query: 7293 gtgtcccatcgccagccaccatcccatgagagtcacttttcttg 7340
||||||| | ||| ||||||| ||||||| ||| |||
Sbjct: 32429650 gtgtcccatcgctcgaccatcatcccatgtgagagtcacttttccttg 32429697

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 7377 ttggccttaaaacacacatgacaa 7400
||||| |||||||
Sbjct: 32442516 ttggcattaaacacacatgacaa 32442539

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaa 5567
|||||||
Sbjct: 33121874 ttttttttaaaaaaaaaa 33121893

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                |||||||
Sbjct: 33750224 tttttttttaaaaaaaaaaaaaa 33750205
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                |||||||
Sbjct: 35477621 tttttttttaaaaaaaaaaaaaa 35477602
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 44/52 (84%)
Strand = Plus / Minus

```
Query: 5201      attaattatttttataacataattgatgtattagttcagttggttagagcatt 5252
                |||| | ||||| ||||| ||||| | | |||||
Sbjct: 35478400 attatattttttataatgtaattgattcattagcttaattggttagagcatt 35478349
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5543      tgaactttttttttaaaaaaaaaaaaaa 5566
                |||| | ||||| ||||| |||||
Sbjct: 35486954 tgaagtttttttttaaaaaaaaaaaaaa 35486931
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5319      aaatatatttttgaaaaaaaaa 5338
                |||||||
Sbjct: 35668158 aaatatatttttgaaaaaaaaa 35668139
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 6266 tttttttttgttttgttttaaaattggt 6293
 ||||| ||||| |||||
Sbjct: 37426748 tttttttttgttttttttaacattggt 37426721

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaatgaa 5355
 |||| | ||||| ||||| |||||
Sbjct: 38594879 aaaataaaaattataaaaaaatgaa 38594856

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||| ||||| ||||| |||||
Sbjct: 38764918 tttttttttaaaaaaaaaaaaaa 38764937

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4877 aagtttttcttttattttta 4896
 ||||| ||||| ||||| |||||
Sbjct: 39091599 aagtttttcttttattttta 39091618

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5333 aaaaaaaaaattataaaaaaat 5352
 ||||| ||||| ||||| |||||
Sbjct: 39532203 aaaaaaaaaattataaaaaaat 39532184

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6049 atccaaataataaaaaaaaaa 6068
 |||||
Sbjct: 40265519 atccaaataataaaaaaaaaa 40265500

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4794 ttaataagtaataatTTTT 4813
 |||||
Sbjct: 42442782 ttaataagtaataatTTTT 42442801

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactTTTTTTTaaaaaaaaaaaaa 5568
 |||||
Sbjct: 43359402 aactTTTTTTTaaaaaaaataaaa 43359379

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 543 ttaattagtttaataattggaat 566
 |||||
Sbjct: 43837723 ttaattagtttacataattggaat 43837746

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 45480104 aactttttttttaaaaaagaaaaaa 45480081

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5326 tttttgaaaaaaaaaattata 5345
 |||||
Sbjct: 46266039 tttttgaaaaaaaaaattata 46266020

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatgga 1679
 |||||
Sbjct: 46597196 cttatcccactaggcgagggttggtacatgga 46597227

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgttttaaaattgt 6292
 |||||
Sbjct: 46799029 ttttttttttgttttttttataattgt 46799056

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2936 aggtgaagaactaaaaaata 2955
 |||||
Sbjct: 46880843 aggtgaagaactaaaaaata 46880824

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)

Strand = Plus / Minus

```
Query: 5206      ttatTTTtataacataattgatgtattagttcagttggtta 5245
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 47149124 ttatTTTtacaacataattgagctattagcttagttggtta 47149085
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5334      aaaaaaattataaaaaaatg 5353
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 47418117 aaaaaaattataaaaaaatg 47418136
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaa 5566
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 48309678 ctttttttttaaaaaaaaaaaa 48309659
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaa 5566
                ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 48660191 ctttttttttaaaaaaaaaaaa 48660172
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 41/48 (85%)
Strand = Plus / Minus

```
Query: 5256      ttaataatgtgaaagtcaaaagttcaattcttacttgatcattaatt 5303
                ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 48961083 ttaataatgtgaaagtcacatgttcgattcatgcttagaccattaatt 48961036
```


Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2581 aaataaatatTTTTTTTcttt 2600
|||||
Sbjct: 49138465 aaataaatatTTTTTTTcttt 49138446

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6769 ttcttttcatttttgggttg 6788
|||||
Sbjct: 49207965 ttcttttcatttttgggttg 49207984

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaa 5566
|||||
Sbjct: 49255373 cttttttttaaaaaaaaaa 49255392

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6435 ttgtatTTTTatTTTatTTgatta 6458
|||||
Sbjct: 49673629 ttgtatTTTTatTTTatTTtatta 49673606

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5550 tttttttaaaaaaaaaaacaagt 5573
|||||
Sbjct: 50159039 tttttttaaaaaaaaaaacaagt 50159016

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5552 ttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 51325083 ttttaaaaaaaaaaaaaaaca 51325102

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6060 aaaaaaaaaattaattatttta 6079
 |||||
Sbjct: 51565113 aaaaaaaaaattaattatttta 51565094

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5554 ttataaaaaaaaaaaaaacaagtaata 5577
 |||||
Sbjct: 51694296 ttataaaaaaaaaaaaaacaagtaata 51694319

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6296 tatattttattttttttgtta 6315
 |||||
Sbjct: 52107288 tatattttattttttttgtta 52107307

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 52129043 tttttttttaaaaaaaaaaaaaa 52129024

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5566
 |||||||
Sbjct: 52224835 cttttttttaaaaaaaaaaaaaa 52224816

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 52496133 tttttttttaaaaaaaaaaaaaa 52496114

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5181 ttagtggttatatttagtgaaattaattatattt 5212
 ||||||| ||||| |||||
Sbjct: 52811133 ttagtggttatatatagtgacggttaattatattt 52811102

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 53064466 tttttttttaaaaaaaaaaaaaa 53064485

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

```
Query: 5014      ataattttaataaattatatttatg 5037
               ||||| |||||||||
Sbjct: 53093309 ataatttaataaattatatttatg 53093286
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

```
Query: 5319      aaatatatattttgaaaaaaaaattataa 5346
               ||||| ||||||||| |||||
Sbjct: 53299188 aaataaatttttgaaaaaaatattataa 53299215
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547      cttttttttaaaaaaaaaa 5566
               |||||||||
Sbjct: 53347825 cttttttttaaaaaaaaaa 53347806
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaa 5567
               |||||||||
Sbjct: 53865494 tttttttttaaaaaaaaaa 53865475
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5545      aacttttttttaaaaaaaaaa 5564
               |||||||||
Sbjct: 53873279 aacttttttttaaaaaaaaaa 53873298
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatatttaact 6514
||||||| |||||||||
Sbjct: 53939024 aaattaaaaattatatatttaact 53939001

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1284 atgatattaaatttattttt 1303
||||||| |||||||
Sbjct: 54120731 atgatattaaatttattttt 54120750

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1856 acatgcccaaaccacctaag 1875
||||||| |||||||
Sbjct: 54629484 acatgcccaaaccacctaag 54629503

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
||||||| |||||||||
Sbjct: 54723337 ttttttttaaaaaaaaaaaaaa 54723314

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaa 5565
||||||| |||||||
Sbjct: 54908563 acttttttttaaaaaaaaaa 54908544

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 54960555 tttttttttaaaaaaaaaaaaaa 54960574

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6533 aaaatatattaaattacaaaataga 6556
 |||||
Sbjct: 55068157 aaaatatattaaattaaaaaataga 55068134

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 537 ttttattttaattagtttaaataattggaatacaatt 572
 |||||
Sbjct: 55381544 ttttattttaattatgttaaataaatgtaataaatt 55381509

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 55410562 tttttttttaaaaaaaaaaaaaa 55410543

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5567
 |||||
 Sbjct: 55494824 tttttttttaaaaaaaaaa 55494843

Score = 40.1 bits (20), Expect = 6.4
 Identities = 20/20 (100%)
 Strand = Plus / Minus

Query: 2743 caaaatcacaagaaattaat 2762
 |||||
 Sbjct: 55881532 caaaatcacaagaaattaat 55881513

>[gb|CM000853.1](#)| Glycine max chromosome 20, whole genome shotgun sequence
 Length = 46773167

Score = 1600 bits (807), Expect = 0.0
 Identities = 813/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 23689403 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 23689344

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||
 Sbjct: 23689343 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 23689284

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
 1822
 |||||
 Sbjct: 23689283 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
 23689224

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 1882
 |||||
 Sbjct: 23689223 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 23689164

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942
 |||||

Sbjct: 23689163 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
23689104

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 23689103 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
23689044

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 23689043 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
23688984

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 23688983 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
23688924

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 23688923 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
23688864

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 23688863 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
23688804

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 23688803 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
23688744

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 23688743 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
23688684

Query: 2363 ctccaagtttccaaccctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 23688683 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
23688624

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 23688623 tctgcaaaaagcatgcatctcagcgctatctcttg 23688589

Score = 1600 bits (807), Expect = 0.0
Identities = 813/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 40362642 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
40362701

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 40362702 tcaagtatcattcttctatccaaaccattaatttcgagatcctttttgataacctctctt
40362761

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 40362762 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
40362821

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 40362822 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
40362881

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 40362882 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
40362941

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 40362942 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
40363001

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 40363002 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
40363061

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 40363062 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40363121

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 40363122 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
40363181

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 40363182 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
40363241

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 40363242 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
40363301

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 40363302 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
40363361

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 40363362 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
40363421

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 40363422 tctgcaaaaagcatgcatctcggcgctatctcttg 40363456

Score = 1594 bits (804), Expect = 0.0
Identities = 814/816 (99%), Gaps = 1/816 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 29618685 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
29618626

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 29618625 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
29618566

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 29618565 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
29618506

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccaccta-gtctatt
1881

|||||
Sbjct: 29618505 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatt
29618446

Query: 1882 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttct
1941

|||||
Sbjct: 29618445 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttct
29618386

Query: 1942 aattttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacc
2001

|||||
Sbjct: 29618385 aattttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacc
29618326

Query: 2002 tactttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccgg
2061

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29618266

Query: 2062 tcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
2121

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Sbjct: 29618265 tcttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
 29618206

Query: 2122 ccccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccc
 2181

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 Sbjct: 29618205 ccccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccc
 29618146

Query: 2182 ttcaattttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
 2241

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 Sbjct: 29618145 ttcaattttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
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Query: 2242 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
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 Sbjct: 29618085 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
 29618026

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
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 29617966

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
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 29617906

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 29617905 atctgcaaaaagcatgcatctcggcgctatctcttg 29617870

Score = 1592 bits (803), Expect = 0.0
 Identities = 812/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 6922535 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataacgttcta
 6922594

Query: 1703 tcaagtaccatacttctatccaaaccattaattttcgagatcctttttgataacctctctt
1762

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Sbjct: 6922595 tcaagtaccatacttctatccaaaccattaattttgagatcctttttgataacctctctt
6922654

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 6922655 atagtctttttagggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
6922714

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 6922715 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
6922774

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
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Sbjct: 6922775 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
6922834

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
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6923014

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 6923015 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
6923074

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 6923075 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
6923134

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2302

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Sbjct: 6923135 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
6923194

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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6923254

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 6923255 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
6923314

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 24498853 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
24498912

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 24498913 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
24498972

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 24498973 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
24499032

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 24499093 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
24499152

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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24499212

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 24499213 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
24499272

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 24499273 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
24499332

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 24499333 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
24499392

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 24499393 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttaaggg
24499452

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 24499453 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 24499512

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 24499513 cattccatataactccgatttgcttctgcttaggcgaaaagccatgtggttctagagctcgt
 24499572

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
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 Sbjct: 24499573 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 24499632

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1592 bits (803), Expect = 0.0
 Identities = 812/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 35094014 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 35093955

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 35093954 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 35093895

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
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 Sbjct: 35093894 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 35093835

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccacacctaagtctattt
 1882

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 Sbjct: 35093834 ctctcactacagagtctaccgggtcttctctctacatgtccaaaccacctaagtctattt
 35093775

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 35093774 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
35093715

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 35093714 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 35093654 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgctggt
35093595

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 35093594 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
35093535

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 35093534 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
35093475

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 35093474 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
35093415

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 35093414 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
35093355

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 35093354 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
35093295

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 35093294 ctccaagtttccaacctctcattcaactcctccctcgactctccaatgaggactatgtca
35093235

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 35093234 tctgcaaaaagcatgcatctcggcgctatctcttg 35093200

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 1524279 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1524220

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 1524219 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
1524160

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 1524159 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1524100

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 1524099 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1524040

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 1524039 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1523980

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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Sbjct: 1523979 attttatcctgtcgagtcttaccacacatccaccgcaacgtcctcatctccgctacacct
 1523920

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
 2062

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 Sbjct: 1523919 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
 1523860

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 1523859 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 1523800

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 2182

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 Sbjct: 1523799 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 1523740

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 1523739 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 1523680

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 1523679 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 1523620

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 1523619 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 1523560

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
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 Sbjct: 1523559 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 1523500

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 1523499 tctgcaaaaagcatgcatctcggcgatctctcttg 1523465

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
Sbjct: 3067305 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
3067364

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
Sbjct: 3067365 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
3067424

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
Sbjct: 3067425 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
3067484

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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3067544

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcggtttcta
1942
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3067604

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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Sbjct: 3067605 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
3067664

Query: 2003 actttattctcatgttgggtctttgaccgcccacattctgttccgtacaaaatcgccgggt
2062
Sbjct: 3067665 actttattctcatgttgggtctttgaccgcccacattctgttccgtacaaaatcgccgggt
3067724

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 3067725 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 3067784

Query: 2123 acccccgatgctttttctccatttcacccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 3067785 acccccgatgctttttctccatttcacccatcctgcttgaatgcatgattcacatccct
 3067844

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

| |||||
 Sbjct: 3067845 taaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 3067904

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 2302

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 Sbjct: 3067905 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 3067964

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 3067965 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 3068024

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 3068025 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 3068084

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1584 bits (799), Expect = 0.0
 Identities = 811/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
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Sbjct: 11225227 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
11225168

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 11225167 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
11225108

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 11225107 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
11225048

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 11225047 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
11224988

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 11224987 tccaccatcttctctacaataggcgctactccaaccatctctctaatagtctcgtttcta
11224928

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 11224927 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
11224868

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 11224867 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
11224808

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 11224807 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
11224748

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

|||||

Sbjct: 11224747 acccccgatgtttttctccatttcacccatcctgcttgaatgcatgattcacatcccg
11224688

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 11224687 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
11224628

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 11224627 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
11224568

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 11224567 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
11224508

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 11224507 ctccaagtttccaacctctcattcagctcctccctcgactctccaaggaggactatgtca
11224448

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 11224447 tctgcaaaaagcatgcatctcggcgctatctcttg 11224413

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 27990590 aacgccttatcccactaggtggggcgggtacatggatcaacttccgccataatgttcta
27990531

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 27990530 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
27990471

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 27990470 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
27990411

Query: 1823 ctcttcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882

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Sbjct: 27990410 ctcttcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
27990351

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgttttcta
1942

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Sbjct: 27990350 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgttttcta
27990291

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 27990290 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27990231

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 27990230 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcggtcggt
27990171

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 27990170 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
27990111

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 27990110 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
27990051

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 27990050 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
27989991

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 27989990 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
27989931

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 27989930 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
27989871

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 27989870 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
27989811

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 27989810 tctgcaaaaagcatgcatctcggcgctatctcttg 27989776

Score = 1578 bits (796), Expect = 0.0
Identities = 808/812 (99%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttctatca
1705

|||||
Sbjct: 10477539 gccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttctatca
10477480

Query: 1706 agtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

|||||
Sbjct: 10477479 agtaccataacttctatccaaaccattaatttcgagatccttttttataacctctcttata
10477420

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825

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Sbjct: 10477419 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
10477360

Query: 1826 ctccactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattttcc
1885

|||||

Sbjct: 10477359 ctcactacagagtcgaccggctcttctctctacatgcccaaaccacctaagtctattttcc
10477300

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaatt
1945

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Sbjct: 10477299 accatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaatt
10477240

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
2005

|||||
Sbjct: 10477239 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
10477180

Query: 2006 ttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggtctt
2065

|||||
Sbjct: 10477179 ttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggtctt
10477120

Query: 2066 accgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
2125

|||||
Sbjct: 10477119 accgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
10477060

Query: 2126 cccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttca
2185

|||||
Sbjct: 10477059 cccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttca
10477000

Query: 2186 atttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgagggata
2245

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Sbjct: 10476999 atttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgagggata
10476940

Query: 2246 atatggtctcctattttccctctgagttagaaaccctccttcttttggtgaacttacat
2305

|||||
Sbjct: 10476939 atatggtctcctattttccctccgagttagaaaccctccttcttttggtgaacttacat
10476880

Query: 2306 tccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctc
2365

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Sbjct: 10476879 tccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtcac
10476820

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
2425

|||||
Sbjct: 10476819 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
10476760

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 10476759 gcaaaaagcatgcatctcggcgctatctcttg 10476728

Score = 1570 bits (792), Expect = 0.0
Identities = 807/812 (99%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
1705

|||||
Sbjct: 36823954 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
36823895

Query: 1706 agtaccatacttctatccaaaccattaatctcgagatcctttttgataacctctcttata
1765

|||||
Sbjct: 36823894 agtaccatacttctatccaaaccattaatctcgagatcctttttataacctctcttata
36823835

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825

|||||
Sbjct: 36823834 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
36823775

Query: 1826 ctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
1885

|||||
Sbjct: 36823774 ctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
36823715

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttctaatt
1945

|||||
Sbjct: 36823714 accatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttctaatt
36823655

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
2005

|||||
Sbjct: 36823654 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccgact
36823595

Query: 2006 ttatttctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggtctt
2065

|||||
Sbjct: 36823594 ttatttctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggtctt
36823535

Query: 2066 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
2125

|||||
Sbjct: 36823534 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
36823475

Query: 2126 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
2185

|||||
Sbjct: 36823474 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
36823415

Query: 2186 atttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggata
2245

|||||
Sbjct: 36823414 atttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggata
36823355

Query: 2246 atatggtctcctattttccctctgagttagaaaccctccttcttttggtgaacttacat
2305

|||||
Sbjct: 36823354 atatggtctcctattttccctctgagttaggaaccctccttcttttggtgaacttacat
36823295

Query: 2306 tccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
2365

|||||
Sbjct: 36823294 tccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
36823235

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
2425

|||||
Sbjct: 36823234 caagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtcatct
36823175

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 36823174 gcaaaaagcatgcatcttggcgctatctcttg 36823143

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 30951073 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
30951014

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 30951013 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
30950954

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 30950953 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
30950894

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
1882
|||||
Sbjct: 30950893 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
30950834

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 30950833 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
30950774

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 30950773 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
30950714

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||

Sbjct: 30950713 actctatttctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
 30950654

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 30950653 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 30950594

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

|||||
 Sbjct: 30950593 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 30950534

Query: 2183 tcaatttcccatcatcctgtattacagaccacagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 30950533 tcaatttcccatcatcctgtattacagaccacagatatttaaaccgtgtgacttgaggg
 30950474

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 30950473 gtaatatggtctcctattttcacctctgagttagaaaccctcattcttttgttgaactta
 30950414

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 30950413 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 30950354

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 30950353 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
 30950294

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 30950293 tctgcaaaaagcatgcatctcggcgctatctcttg 30950259

Score = 1566 bits (790), Expect = 0.0
 Identities = 808/814 (99%)
 Strand = Plus / Plus

Query: 1644 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
1703

|||||
Sbjct: 42139151 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
42139210

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
1763

|||||
Sbjct: 42139211 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
42139270

Query: 1764 tagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
1823

|||||
Sbjct: 42139271 tagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatttgggtctactc
42139330

Query: 1824 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
1883

|||||
Sbjct: 42139331 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
42139390

Query: 1884 ccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttaa
1943

|||||
Sbjct: 42139391 ccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttaa
42139450

Query: 1944 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
2003

|||||
Sbjct: 42139451 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
42139510

Query: 2004 ctttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggtc
2063

|||||
Sbjct: 42139511 ctttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgctggtc
42139570

Query: 2064 ttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataaca
2123

|||||
Sbjct: 42139571 ttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataaca
42139630

Query: 2124 ccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccctt
2183

Sbjct: 42139631 ccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccctt
42139690

Query: 2184 caatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggg
2243

Sbjct: 42139691 caatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggg
42139750

Query: 2244 taatatgggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttac
2303

Sbjct: 42139751 taatatgggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttac
42139810

Query: 2304 attccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtc
2363

Sbjct: 42139811 attccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtc
42139870

Query: 2364 tccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcat
2423

Sbjct: 42139871 tccaagtttccaacctctcattcaactcctccatcgactctccaaggaggactatgtcat
42139930

Query: 2424 ctgcaaaaagcatgcatctcggcgctatctcttg 2457

Sbjct: 42139931 ctgcaaaaacatgcatctcggcgctatctcttg 42139964

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

Sbjct: 1170223 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1170282

Query: 1703 tcaagtaccatacttctatccaaaccattaatttgcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 1170283 tcaagtaccatactttctatccaaatcattaagttcgatatcctttttgataacctatctt
1170342

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 1170343 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1170402

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

|||||
Sbjct: 1170403 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1170462

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 1170463 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1170522

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002

|||||
Sbjct: 1170523 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
1170582

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 1170583 actttattctcatgttgggtcttgactgccaacattctgttccgtacaaaatcgccgggt
1170642

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 1170643 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
1170702

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 1170703 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
1170762

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||

Sbjct: 1170763 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 1170822

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 2302

|||||
 Sbjct: 1170823 ataatatggtctcctattttcacttctgagttagaaaccctccttcttttggtgaactta
 1170882

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 1170883 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 1170942

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 1170943 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 1171002

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
 |||||

Sbjct: 1171003 tctgcaaaaagcatgcatctcggcgctatctcttg 1171037

Score = 1560 bits (787), Expect = 0.0
 Identities = 808/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 1948051 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1948110

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 1948111 tcaagtaccataacttctatccaaatcattaagttctagatcctttttgataacctctctt
 1948170

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 1948171 atagtctttttgggtcttcctctacctcgaattgtttgtcttctctccatctgggtctact
 1948230

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 1948231 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1948290

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

|||||
Sbjct: 1948291 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1948350

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 1948351 attttaccctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1948410

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 1948411 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
1948470

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 1948471 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
1948530

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 1948531 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
1948590

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 1948591 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
1948650

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 1948651 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
1948710

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 1948711 cattccatataactccgatttgcttctacttaggcgaaagccatgtgtttctagagctcgt
1948770

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 1948771 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggatgactatgtca
1948830

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 1948831 tctgcaaaaagcatgcatctcggcgctatctcttg 1948865

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 28793952 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
28794011

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 28794012 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
28794071

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 28794072 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
28794131

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 28794132 ctctcactatagagtctaccggtcttctctctacatgcccacacctaagtctattt
28794191

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 28794192 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
28794251

Query: 1943 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 28794252 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgctacacct
28794311

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 28794312 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
28794371

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 28794372 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
28794431

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 28794432 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
28794491

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 28794492 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
28794551

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 28794552 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
28794611

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 28794612 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
28794671

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 28794672 ttccaagttttccaacctctcattcaactcctcctcgactctccaaggaggactatgtca
28794731

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 28794732 tctgcaaaaagcatgcatctcggcgctatctcttg 28794766

Score = 1542 bits (778), Expect = 0.0
Identities = 805/814 (98%)
Strand = Plus / Minus

Query: 1644 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
1703
|||||
Sbjct: 35838726 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
35838667

Query: 1704 caagtaccataacttctatccaaaccattaatctcgagatcctttttgataacctctctta
1763
|||||
Sbjct: 35838666 caagtaccataacttctatccaaatcattaagttcgagatcctttttgataacctctctta
35838607

Query: 1764 tagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
1823
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Sbjct: 35838606 tagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
35838547

Query: 1824 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
1883
|||||
Sbjct: 35838546 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
35838487

Query: 1884 ccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggtttctaa
1943
|||||
Sbjct: 35838486 ccaccatcttctctacaataggcgctactccaaccctctctttaatagtctcggtttctaa
35838427

Query: 1944 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
2003
|||||
Sbjct: 35838426 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
35838367

Query: 2004 ctttattctcatggttggtcttgaccgccaacattctgttcggtacaaaatcgccggtc
2063

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Sbjct: 35838366 ctttattctcatggttggtcttgaccgccaacattctgttcggtacaaaatcgccggtc
35838307

Query: 2064 ttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataaca
2123

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Sbjct: 35838306 ttaccgcagtcgcgataaaaactttccctttaacttgatcggtacctttgcatcacataaca
35838247

Query: 2124 cccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccctt
2183

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Sbjct: 35838246 cccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccctt
35838187

Query: 2184 caatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggga
2243

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Sbjct: 35838186 caatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggga
35838127

Query: 2244 taatatgggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttac
2303

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Sbjct: 35838126 taatatgggtctcatattttccactctgagttagaaaccctccttcttttggtgaacttac
35838067

Query: 2304 attccatatactccgattttgcttctgcttaggcgaaagccatgtgtttctagagctcgtc
2363

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Sbjct: 35838066 attccatatactccgattttcttctgcttaggcgaaagccatgtgtttctagagctcgtc
35838007

Query: 2364 tccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcat
2423

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Sbjct: 35838006 tccaagtttccaacctttcattcaactcctccctcaactctccaaggaggactatgtcat
35837947

Query: 2424 ctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 35837946 ctgcaaaaagcatgcatctcggcgcttatctcttg 35837913

Score = 1540 bits (777), Expect = 0.0
Identities = 807/817 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 12316621 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
12316562

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 12316561 tcaagtaccatacttctatccagatcattaagttcgagatcctttttaataacctctctt
12316502

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 12316501 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
12316442

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtcctattt
1882

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Sbjct: 12316441 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtcctattt
12316382

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 12316381 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
12316322

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 12316321 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12316262

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 12316261 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
12316202

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 12316201 cttaccgtagtccggtaaaaactttcccttttagcttgatcggtacctttgcatcacataac
 12316142

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182

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 Sbjct: 12316141 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 12316082

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
 2242

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 Sbjct: 12316081 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
 12316022

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 12316021 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 12315962

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 12315961 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctaaagatcgt
 12315902

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 12315901 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 12315842

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttgaa 2459
 |||||

Sbjct: 12315841 tctgcaaaaagcatgcatctcggtgctatctcttgaa 12315805

Score = 1536 bits (775), Expect = 0.0
 Identities = 805/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 5883523 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 5883464

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 5883463 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
5883404

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 5883403 atagtctttttgggtcttcctctgtctcgaattgtttgccttctctccatctgggtctact
5883344

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 5883343 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5883284

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

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Sbjct: 5883283 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
5883224

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 5883223 attttatcctgttgagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
5883164

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 5883163 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
5883104

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 5883103 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
5883044

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 5883043 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
5882984

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 5882983 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5882924

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 5882923 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
5882864

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 5882863 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
5882804

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 5882803 ctccaagtttctaacctctcattcaactcctccctcgactctccaaggaggactatgtca
5882744

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 5882743 tctgcaaaaacatgcatctcggcgctatctcttg 5882709

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 8173032 aacgccttatcccactaggtggggctcggctacatggatcaacttccaccataatgttcta
8173091

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 8173092 tcaagtaccatacttctatccaaatcattaagttcagatcctttttgataacctctctt
8173151

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttcttctctccatctgggtctact
1822

|||||

Sbjct: 8173152 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
8173211

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 8173212 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
8173271

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||| |
Sbjct: 8173272 tccatcatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
8173331

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

||| |||||
Sbjct: 8173332 attctatcctgccgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
8173391

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 8173392 actttattctcatgttggtcttgaccgccaacattctgttcggtacaaaatcgccggt
8173451

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 8173452 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
8173511

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 8173512 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
8173571

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 8173572 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
8173631

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 8173632 ataatatagtctcctatTTTTTtacctctgagttagaaaccctccttcttttgttgaactta
 8173691

Query: 2303 cattccatataactccgatttgccttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 8173692 cattccatataactccgatttcttctgcttaggcgaaagccatgtggttctagagctcgt
 8173751

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 8173752 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 8173811

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 8173812 tctgcaaaaagcatgcatctcggcgctatctcttg 8173846

Score = 1513 bits (763), Expect = 0.0
 Identities = 802/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 1053351 aacgccttatcccactaggtgggatcggctacatggatcaacttccgccataatgttcta
 1053292

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 1053291 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 1053232

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 1053231 atagtctttttgggtcttcctctgtctcgaattggttgtcttctctccatctgggtctact
 1053172

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 1053171 ctccctcattacagagtctaccagtcttctctctacatgcccaaaccacctaagtctattt
 1053112

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 1053111 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1053052

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 1053051 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1052992

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 1052991 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
1052932

Query: 2063 cttaccgcagtcggataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 1052931 cttaccgtagtcggataaaaactttccctttagcttgatcggaacctttgcatcacataac
1052872

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 1052871 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
1052812

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 1052811 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
1052752

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 1052751 ataatatggtctcctattttcacctctgagttagaaactctccttcttttggtgaactta
1052692

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 1052691 catttcatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
1052632

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 1052631 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
1052572

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 1052571 tctgcaaaaagaatgcatctcggcgctatctcttg 1052537

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 17467775 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
17467834

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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17467894

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
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17467954

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
1882

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Sbjct: 17467955 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
17468014

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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17468074

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 17468075 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
17468134

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 17468135 actttagtctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
17468194

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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17468254

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 17468255 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
17468314

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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17468374

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaaccctccttcttttgttgaactta
2302

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Sbjct: 17468375 ataatatggtctcctattttccacctctgagttagataccctactacttttgttgaactta
17468434

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 17468435 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
17468494

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 17468495 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
17468554

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 24551481 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
24551540

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 24551541 tcaagtaccatacttctatcaaaatcattaagttcgagatccttcttgataacctctctt
24551600

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
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24551720

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
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Sbjct: 24551721 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
24551780

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Query: 2003 actttattctcatgttgggtctttgaccgccaacatttctgttccgtacaaaatcgccgggt
2062
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Sbjct: 24551841 acttttagtctcatgttgggtctttgaccgccaacatttctgttccgtacaaaatcgccgggt
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Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 24551901 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
24551960

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 24551961 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
24552020

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 24552021 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
24552080

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 24552081 ataatatggtctcctattttcacctctgagttagataaccctcctacttttgttgaactta
24552140

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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24552200

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 24552201 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
24552260

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 24552261 tctgcaaaaagcatgcatctcggcgctatctcttg 24552295

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 46385611 aacgccttatcccactaggtggggctcggctacatggatcaactttcgccataatgttcta
46385552

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 46385551 tcaagtaccatacttctatccaaatcattaagtttgagatcctttttgataacctctctt
46385492

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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46385432

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 46385431 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
46385372

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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46385312

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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46385252

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2062

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Sbjct: 46385251 actttattctcatgttggtccttgaccgtccaacattctgttccgtacaaaatcgctcgg
46385192

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 46385191 cttaccgcagtcgataaaaactttccctttagcttgatcggtatctttgcatcacataac
46385132

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 46385131 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacattccct
46385072

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 46385071 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
46385012

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 46385011 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
46384952

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 46384951 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
46384892

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 46384891 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtct
46384832

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 46384831 tctgcaaaaagcatgcatctcggcgctatctcttg 46384797

Score = 1505 bits (759), Expect = 0.0
Identities = 801/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 15211026 aacgccttatcccactaggtggggctcggctacatggatcaacttctgccataatgttcta
15210967

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 15210966 tcaagtaccatacttctatccaaatcattaagtctcgagatcctttttgataacctctctt
15210907

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 15210906 atagtctttttgggtcttcctctgccttgaattgtttgccttctctccatctggtctact
15210847

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcattt
1882

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15210787

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 15210786 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
15210727

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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15210667

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2062

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Sbjct: 15210666 actttattctcatgttgggtcttgactgccccaacattctgttccgtacaaatcgccggt
15210607

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 15210606 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
15210547

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 15210546 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
15210487

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 15210486 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
15210427

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 15210426 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
15210367

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 15210366 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
15210307

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 15210306 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
15210247

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 15210246 tctgcaaaaagcatgcatctcgggtgctatctcttg 15210212

Score = 1505 bits (759), Expect = 0.0
Identities = 801/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 29707602 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
29707661

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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29707721

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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1882

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Sbjct: 29707782 cttctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
29707841

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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29707901

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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29707961

Query: 2003 actttattctcatggttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 29707962 actttagtctcatggttggtctcttgaccatccaacattctgttcggtacaaaatcgccggt
29708021

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 29708022 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
29708081

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 29708082 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
29708141

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

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Sbjct: 29708142 tcaatttctccatcatcatgtattacagacccaagatatattaaccggtgtgacttgaggg
29708201

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 29708202 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
29708261

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 29708262 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
29708321

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 29708322 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29708381

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 29708382 tctgcaaaaagcatgcatctcggcgctatctcttg 29708416

Score = 1505 bits (759), Expect = 0.0
Identities = 801/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 39592472 aacgccttatcccactaggtggggctgggtacatggatcaacttccggtcataatgttcta
39592531

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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39592591

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

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1882

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Sbjct: 39592652 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
39592711

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 39592712 tccaccatcttctctacaatagggtgctactccaaccctctctctaataagcttcgtttcta
39592771

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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39592831

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 39592832 actttattctcatgttgactcttgaccgccaacattctgttccgtacaaaatcgccggt
39592891

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 39592892 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
39592951

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 39592952 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
39593011

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 39593012 tcaatttctccatcatactgtattacaaaccaagatatattaaccgtgtgacttgaggg
39593071

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 39593072 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
39593131

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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39593191

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 39593192 cccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
39593251

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 39593252 tctgcaaaaagcatgcatctcggcgctatctcttg 39593286

Score = 1501 bits (757), Expect = 0.0
Identities = 801/815 (98%), Gaps = 3/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 24192768 aacgccttatcccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
24192827

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 24192828 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
24192887

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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24192947

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 24192948 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
24193007

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||||
Sbjct: 24193008 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
24193067

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 24193068 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
24193127

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 24193128 actttaatctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
 24193187

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 24193188 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 24193247

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

|||| |
 Sbjct: 24193248 accctcgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 24193307

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 24193308 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
 24193367

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 24193368 ataatatggtctcctattttcacctctgagttagaaaccctc---cttttgttgaactta
 24193424

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 24193425 cattccatataactccgatttgcttctgcttaggcgaaaatcatgtgtttctagatctcgt
 24193484

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 24193485 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 24193544

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 24193545 tctgcaaaaagcatgcatctcggcgctatctcttg 24193579

Score = 1497 bits (755), Expect = 0.0
 Identities = 800/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 33606125 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
33606066

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 33606065 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
33606006

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 33606005 atagtctttttgggtcttcctttgcctcgaattgtttgccttctctccatctgggtctatt
33605946

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 33605945 ctctcactacatagtctactgggtcttctctctacatgcccaaaccacctaagtctatatt
33605886

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 33605885 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcatttcta
33605826

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 33605825 attttatcctgtcaagtcttaccacacatccaccgcaacatcctcatctccgctacacct
33605766

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 33605765 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccgat
33605706

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 33605705 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
33605646

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 33605645 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgtttcacatccct
33605586

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 33605585 tcaatttctccatcatcctgtattacaaaccaagatatattaaaccgtgtgacttgaggg
33605526

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 33605525 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
33605466

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 33605465 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
33605406

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 33605405 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
33605346

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 33605345 tctgcaaaaagcatgcatctcggcgctatctcttg 33605311

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 40293684 aacgccttatcccactaggtggggcggtacatggatcaactttcgtcataatgttcta
40293743

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 40293744 tcaagtaccatacttctatccaaatcattaagttcgaaatcctttttgataacctctctt
40293803

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 40293804 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40293863

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 40293864 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
40293923

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942

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Sbjct: 40293924 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
40293983

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 40293984 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
40294043

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 40294044 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
40294103

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 40294104 ctaccgcaatccaataaaaactttccctttagcttgatcggtacctttgcatcacataac
40294163

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 40294164 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
40294223

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 40294224 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
40294283

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 40294284 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
40294343

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 40294344 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
40294403

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 40294404 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
40294463

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 40294464 tctgcaaaaagcatgcatctcggcgctatctcttg 40294498

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 13157671 aacgccttatccactaggtggggctcggctacatggatcaatttccgccataatgttcta
13157730

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 13157731 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
13157790

Query: 1763 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 13157791 atagtctttttgggtcttccctctgcctcgaattgtctgcctcctctccatctgggtctact
13157850

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 13157851 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
13157910

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 13157911 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
13157970

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 13157971 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
13158030

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 13158031 actttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
13158090

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 13158091 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
13158150

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 13158151 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatcccct
13158210

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 13158211 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
13158270

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 13158271 ataatatggtctcctatttttcacctctgagttagataccctcctacttttgttgaactta
13158330

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 13158331 cattccatataactccgatttgcttctggttaggcgaaagccatgtggttctagagctcgt
13158390

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 13158391 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
13158450

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 13158451 tctgcaaaaagcatgtatctcgacgctatctcttg 13158485

Score = 1463 bits (738), Expect = 0.0
Identities = 795/813 (97%), Gaps = 2/813 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 37430452 aacgccttatccactaggtggggtcggctacatgaatcaacttccgccataatgttcta
37430393

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 37430392 tcaaataccatacttctatccaaatcatthaagttcgagatccttttttataacctctctt
37430333

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 37430332 atagtctttttgggtcttcctctgcctcgaatagtttgtcttctctccatctgggtctact
37430273

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 37430272 ctctcactacagagtctactagtcttctctctacatgcccacacctaagtttattt
37430213

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 37430212 tccatcatcttctctacaataggcgctattccaaccctctctctaataagcttcgtttcta
37430153

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 37430152 attttatcctgtcgagtcttacctcacatccaccgcaacatcctcatctcccctacacct
37430093

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 37430092 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
37430033

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 37430032 cttaccgcagtcgataaaaactttctcttttagcttgatcggtacctttgcatcacataac
37429973

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 37429972 acccccgatgcttttctccatttcatccattctgcttgaatgcgatgattcacatcccct
37429913

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 37429912 tcaatttccccatcatcctgtattacaaacccaagatatattaaacc--gtgacttgaggg
37429855

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 37429854 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
37429795

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 37429794 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
37429735

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 37429734 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
37429675

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctct 2455
|||||
Sbjct: 37429674 tctgcaaaaagcatgcatctcggcgctatctct 37429642

Score = 1398 bits (705), Expect = 0.0
Identities = 731/737 (99%), Gaps = 2/737 (0%)
Strand = Plus / Plus

Query: 1721 tccaaaccattaatttcgagatcctttttgataacctctcttatagtctttttgggtctt
1780
|||||
Sbjct: 182940 tccaaaccattaatttcgagatccttttt-ataacctctcttatagtctttt-gggtctt
182997

Query: 1781 cctctgcctcgaattgtttgtcttctctccatctgggtctactctcctcactacagagtct
1840
|||||
Sbjct: 182998 cctctgcctcgaattatttgtcttctctccatctgggtctactctcctcactacagagtct
183057

Query: 1841 accggtcttctctctacatgcccaaaccacctaagtctatttccaccatcttctctaca
1900
|||||
Sbjct: 183058 accggtcttctctctacatgcccaaaccacctaagtctatttccaccatcttctctaca
183117

Query: 1901 ataggcgctactccaaccctctctctaataagcttcgtttctaattttatcctgtcgagtc
1960
|||||
Sbjct: 183118 ataggcgctactccaaccctctctctaataagcttcgtttctaattttatcctgtcgagtc
183177

Query: 1961 ttaccacacatccaccgcaacatcctcatctccgctacacctactttattctcatgttgg
2020
|||||
Sbjct: 183178 ttaccacacatccaccgcaacatcctcatctccgctacacctactttattctcatgttgg
183237

Query: 2021 ctcttgaccgccaacattctgttccgtacaaaatcgccgggtcttaccgcagtcgataa
2080
|||||
Sbjct: 183238 ctcttgaccgccaacattctgttccgtacaaaatcgctcgggtcttaccgcagtcgataa
183297

Query: 2081 aactttcccttagcttgatcggtacctttgcatcacataacacccccgatgcttttctc
2140

|||||

Sbjct: 183298 aactttcccttagcttgatcggtacctttgcatcacataacacccccgatgcttttctc
183357

Query: 2141 catttcatccatcctgcttgaatgcatgattcacatccccttcaatttccccatcatcc
2200

|||||

Sbjct: 183358 catttcatccatcctgcttgaatgcatgattcacatccccttcaatttccccatcatcc
183417

Query: 2201 tgtattacagaccgaagatatttaaaccgtgtgacttgagggataaatatggtctcctatt
2260

|||||

Sbjct: 183418 tgtattacagaccgaagatatttaaaccgtgtgacttgagggataaatatggtctcctatt
183477

Query: 2261 ttcacctctgagttagaaaccctccttcttttgttgaacttacattccatataactccgat
2320

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Sbjct: 183478 ttcacctctgagttagaaaccctccttcttttgttgaacttacattccatataactccgat
183537

Query: 2321 ttgcttctgcttaggcgaagccatgtgtttctagagctcgtctccaagtttccaacctc
2380

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Sbjct: 183538 ttgcttctgcttaggcgaagccatgtgtttctagagctcgtctccaagtttccaacctc
183597

Query: 2381 tcattcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcat
2440

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Sbjct: 183598 tcattcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaacatgcat
183657

Query: 2441 ctcggcgctatctcttg 2457

|||||

Sbjct: 183658 ctcggcgctatctcttg 183674

Score = 1340 bits (676), Expect = 0.0
Identities = 695/700 (99%), Gaps = 1/700 (0%)
Strand = Plus / Plus

Query: 1759 tcttatagtcttttgggtcttctctgctcgaattgtttgtcttctctccatctggtc
1818

|||||
Sbjct: 1814177 tcttatagtcttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtc
1814236

Query: 1819 tactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtct
1878

|||||
Sbjct: 1814237 tactctcctcactatagagtctaccggtcttctctctacatgcccaaaccacctaagtct
1814296

Query: 1879 attttccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggt
1938

|||||
Sbjct: 1814297 attttccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggt
1814356

Query: 1939 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
1998

|||||
Sbjct: 1814357 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
1814416

Query: 1999 acctactttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgc
2058

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Sbjct: 1814417 acctactttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgc
1814476

Query: 2059 cggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcaca
2118

|||||
Sbjct: 1814477 cggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcaca
1814536

Query: 2119 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatc
2178

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Sbjct: 1814537 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatc
1814596

Query: 2179 cccttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttg
2238

|||||
Sbjct: 1814597 cccttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttg
1814656

Query: 2239 agggataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaa
2298

|||||

Sbjct: 1814657 agggataatatggtctcctatccccacctctgagttagaaaccctccttcttttggtgaa
1814716

Query: 2299 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagc
2358

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Sbjct: 1814717 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagc
1814776

Query: 2359 tcgtctccaa-gtttccaacctctcattcaactcctccctcgactctccaaggaggacta
2417

|||||
Sbjct: 1814777 tcgtctccaagggtttccaacctctgattcgactcctccctcgactctccaaggaggacta
1814836

Query: 2418 tgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 1814837 tgtcatctgcaaaaagcatgcatctcggcgactatctcttg 1814876

Score = 1318 bits (665), Expect = 0.0

Identities = 704/717 (98%)

Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 12015977 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
12015918

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 12015917 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
12015858

Query: 1763 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 12015857 atagtctttttgggtcttccctctgcctcgaattgtttgccttctctccatctggtctact
12015798

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 12015797 ctccctcactacagagtctactgatcttctctctacatgcccaaaccacctaagtctattt
12015738

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 12015737 tccaccatcttctctacaataggcgctactccaaccctctctctaatagctccgtttcta
12015678

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 12015677 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12015618

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 12015617 acttttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
12015558

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 12015557 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
12015498

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 12015497 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
12015438

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 12015437 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
12015378

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 12015377 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
12015318

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagct
2359

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Sbjct: 12015317 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagct
12015261

Score = 1225 bits (618), Expect = 0.0
Identities = 652/662 (98%), Gaps = 1/662 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 2236169 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
2236110

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 2236109 tcaagtaccatacttctatctaaatcattaagttcgagatcctttttataacctctctt
2236050

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

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Sbjct: 2236049 atagtctttttgggtcttcctctgtctcgaattgtttgcttctctccatctgggtctact
2235990

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 2235989 ctctcactacagagtctactgggtcttctctttacatgcccaaaccacctaagtctattt
2235930

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 2235929 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
2235870

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 2235869 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2235810

Query: 2003 actttattctcatggttggtctttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 2235809 ac-ttattctcatggttggtctttgaccgcccacattctgttccgtacaaaatcgccggt
2235751

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 2235750 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2235691

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 2235690 acccccgatgctttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2235631

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 2235630 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2235571

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 2235570 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
2235511

Query: 2303 ca 2304
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Sbjct: 2235510 ca 2235509

Score = 1188 bits (599), Expect = 0.0
Identities = 653/671 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 45145362 aacgccttatccactaggtggggtcggctacatggatcaacttccgctataatgttcta
45145421

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 45145422 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
45145481

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 45145482 atagtctttttgggtcttctctgacctgaattgtttgcttctctccatctggtctact
45145541

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 45145542 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctattt
45145601

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttccgtttcta
1942

|||||
Sbjct: 45145602 tccaccatcttctctacaataagcgctactccaaccctctctctaatagttccgtttcta
45145661

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 45145662 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45145721

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 45145722 actttagtctcatgttgactcttgaccgccaacattctgttccgtacaaaatcgctcggt
45145781

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 45145782 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
45145841

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 45145842 acctccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
45145901

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 45145902 tcaatttctccatcatcctgtattacggaccgaagatatttaaaccgtgtgacttgaagg
45145961

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 45145962 ataatatggtctcctatttttcacctctgagttagataccctcctactttttgttgaactta
45146021

Query: 2303 cattccatata 2313
|||||||
Sbjct: 45146022 cattccatata 45146032

Score = 1146 bits (578), Expect = 0.0
Identities = 599/606 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 36460348 aacgccttatcccattaggtggggctcggctacatggatcaacttccgccataatgttcta
36460289

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 36460288 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
36460229

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 36460228 atagtctttttgggtcttcctctgcctcgaaatgtttgtcttcttctccatctgggtctact
36460169

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||||
Sbjct: 36460168 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
36460109

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||||
Sbjct: 36460108 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
36460049

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 36460048 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
36459989

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062
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Sbjct: 36459988 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
36459929

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36459928 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
36459869

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 36459868 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
36459809

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242
 |||||||||||||||||||||||||||||||||||||||||||||||||||| |||||
Sbjct: 36459808 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgatttgaggg
36459749

Query: 2243 ataata 2248
 |||||
Sbjct: 36459748 ttaata 36459743

Score = 1136 bits (573), Expect = 0.0
Identities = 612/625 (97%)
Strand = Plus / Plus

Query: 1640 acaaacgccttatccactaggtggggtcggctacatggatcaacttccgccataatggt
1699
 |||||||||||||||| ||| ||||||||||||||||||||||||||||||||||||
Sbjct: 6620381 acaaacgccttatccgactaagtggggtcggctacatggatcaacttccgccataatggt
6620440

Query: 1700 ctatcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctct
1759
 |||||||||||||||||||||||||||| ||||| ||||||||||||||||||||||||
Sbjct: 6620441 ctatcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctct
6620500

Query: 1760 cttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtct
1819

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Sbjct: 6620501 cttataatctttttgggtcttcctctgcctcgaattgtttgccgtctctccatctggtct
6620560

Query: 1820 actctcctcactacagagtctaccggtcttctctctacatgcccaccacctaagtcta
1879

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Sbjct: 6620561 actctcctcactacagagtctaccggtcttctctctacatgcccaccacctaagtcta
6620620

Query: 1880 ttttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgttt
1939

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Sbjct: 6620621 ttttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgttt
6620680

Query: 1940 ctaatcttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctaca
1999

||||| |||||||||||||||||| ||||||||||||||| |||||||||||||||
Sbjct: 6620681 ctaatcttatcctgtcgagtcttactacacatccaccgcaatcctcatctccgctaca
6620740

Query: 2000 cctactttattctcatgttggtctcttgaccgcccacattctgttcggtacaaaatcgcc
2059

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Sbjct: 6620741 cctactttattctcatgttggtctcttgaccgcccacattctgttcggtacaaaatcgcc
6620800

Query: 2060 ggtcttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacat
2119

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Sbjct: 6620801 ggtcttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacat
6620860

Query: 2120 aacacccccgatgcttttctccatttcacatccatcctgcttgaatgcatgattcacatcc
2179

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Sbjct: 6620861 aacacccccgatgcttttctccatttcacatccatcctgcttgaatgcatgattcacatcc
6620920

Query: 2180 ccttcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttga
2239

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Sbjct: 6620921 ccttcaatttctcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttga
6620980

Query: 2240 gggataatatggtctcctattttca 2264

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Sbjct: 6620981 gggataatatggtctcctattttca 6621005

Score = 1116 bits (563), Expect = 0.0
Identities = 575/579 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 25309160 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
25309101

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 25309100 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
25309041

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 25309040 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
25308981

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 25308980 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
25308921

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 25308920 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
25308861

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 25308860 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25308801

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 25308800 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
25308741

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 25308740 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
25308681

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 25308680 acccccgatgcttttctccatttcatccatcctgcttgaatgtgatgattcacatcccct
25308621

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatat 2221
 ||| ||||||||||||||||||||||||||||||||||
Sbjct: 25308620 tcactttccccatcatcctgtattacagaccaagatat 25308582

Score = 1047 bits (528), Expect = 0.0
Identities = 543/548 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 5360814 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
5360755

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 5360754 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
5360695

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 5360694 atagtctttttgggtcttcctctgcctcgaagtgttgcttctctccatctgggtctact
5360635

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
 || ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 5360634 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5360575

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcggtttcta
1942

|||||
Sbjct: 5360574 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
5360515

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 5360514 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
5360455

Query: 2003 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 5360454 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
5360395

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 5360394 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcccataac
5360335

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatcccct
2182

|||||
Sbjct: 5360334 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatcccct
5360275

Query: 2183 tcaatttc 2190

|||||
Sbjct: 5360274 tcaatttc 5360267

Score = 995 bits (502), Expect = 0.0
Identities = 526/534 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 42488935 aacgccttatcccactaggtggggtcgactacatggatcaacttccgccataatgttcta
42488994

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 42488995 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
42489054

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 42489055 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
42489114

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882

|||||
Sbjct: 42489115 ctctcactacagagtctaccggtcttctctctacatgctcaaaccacctaagttctattt
42489174

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

|||||
Sbjct: 42489175 tccaccatcttctctacaataggcgctactccaaccctctctctaataacttcgtttcta
42489234

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 42489235 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
42489294

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 42489295 actttattctcatgttgggtcttgaccgccccaatattctgttccgtacaaaatcgctcggt
42489354

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 42489355 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
42489414

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcaca 2176

|||||
Sbjct: 42489415 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcaca
42489468

Score = 991 bits (500), Expect = 0.0
Identities = 580/600 (96%), Gaps = 5/600 (0%)
Strand = Plus / Minus

Query: 1860 gcccacaaaccacctaagtctattttccaccatcttctctacaataggcgctactccaaccc
1919

|||||
Sbjct: 39833861 gcccacaaaccacctaagtttattt-ccac-atctttt-tacaataggcggtactccaaccc
39833805

Query: 1920 tctctctaataagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgca
1979

|||||
Sbjct: 39833804 tctctctaataagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgca
39833745

Query: 1980 acatcctcatctccgctacacctaactttattctcatggtggctcttgaccgcccacatt
2039

|||||
Sbjct: 39833744 acatcctcatctccgctacaccgactttattctcatggtgactcttgaccgcccacatt
39833685

Query: 2040 ctggtccgtacaaaatcgccggtcttaccgcagtcgcgataaaaactttccctttagcttga
2099

|||||
Sbjct: 39833684 ctggtccgtataaaaatcgctggtcttaccgcagtcgcgataaaaactttccctttagcttga
39833625

Query: 2100 tcggtacctttgcatcacataacacccccgatgcttttctcatttcatccatcctgctt
2159

|||||
Sbjct: 39833624 tcggtacctttgcatcacataacacccccgatgcttttctcatttcatccatcctgctt
39833565

Query: 2160 gaatgcatgattcacatccccttcaatttcccatcatcctgtattacagacccaagat
2219

|||||
Sbjct: 39833564 gaatgcatgattcacatccccttcaatttcccatcatcctgtattacagacccaagat
39833505

Query: 2220 atttaaaccgtgtgacttgagggataaatatggtctcctattttcacctctgagttagaaa
2279

|||||
Sbjct: 39833504 atttaaaccgtgtgacttgagggataaatatggtctcctattttcacctctgagttagaaa
39833445

Query: 2280 ccctccttcttttgttgaacttacattccatataactccgatttg-cttctgcttaggcga
2338

|||||
Sbjct: 39833444 ccctccttcttttgttgaacttacattccatataactccgatttcgccccctgcttaggcga
39833385

```
Query: 2056      cgccggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatc
2115            |||
Sbjct: 15425686 cgccggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtatctttgcatc
15425627
```

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||

Sbjct: 16269273 tccaccatcttctctacaatagggcgctactccaaccctttctctaatagcttc-tttcta
16269331

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 16269332 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
16269391

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 16269392 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
16269451

Query: 2063 cttaccgcagtcgc 2076

|||||
Sbjct: 16269452 cttaccgcagtcgc 16269465

Score = 759 bits (383), Expect = 0.0

Identities = 395/399 (98%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 39295009 aacgccttatcccactaggtggggcggtacatggatcaacttccgccataatgttcta
39295068

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 39295069 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
39295128

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 39295129 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
39295188

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 39295189 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
39295248

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 39295249 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
39295308

Query: 1943 attttatacctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 |||||||||||||||||||||||||||||||||||||||| | ||||||||||||||||||||||||
Sbjct: 39295309 attttatacctgtcgagtcttaccacacatccaccgagacatcctcatctccgctacacct
39295368

Query: 2003 actttattctcatgttggctcttgaccgccaacattct 2041
 ||||||||||||||||||||||||||||||||||||
Sbjct: 39295369 actttattctcatgttggctcttgaccgccaacattct 39295407

Score = 686 bits (346), Expect = 0.0
Identities = 364/370 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttcgccataaatgttcta
1702
 |||||||||||| | |||||||||||||||||||||||||||||||||||| | ||||||||||||||||
Sbjct: 41475953 aacgccttatcctactaggtggggtcggctacatggatcaacttcgccataaatgttcta
41476012

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||||||||||||||||||||||||||||||||| | | |||||| | ||||||||||||
Sbjct: 41476013 tcaagtaccatacttctatccaaaccattaatttcgaaattcttttttataacctctctt
41476072

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 |||||||||||||||||||||||||||||||||||| | ||||||||||||||||||||
Sbjct: 41476073 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
41476132

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882
 |||||||||||||||||||||||||||||||||||| | ||||||||||||||||||||
Sbjct: 41476133 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
41476192

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 41476193 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
41476252

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 41476253 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctataacct
41476312

Query: 2003 actttattct 2012
|||||
Sbjct: 41476313 actttattct 41476322

Score = 609 bits (307), Expect = e-171
Identities = 313/315 (99%)
Strand = Plus / Minus

Query: 2143 tttcatccatcctgcttgaatgcgatgattcacatccccttcaatttccccatcatcctg
2202

|||||
Sbjct: 23398765 tttcatccatcctgcttgaatgcgatgattcacatccccttcaatttccccatcatcctg
23398706

Query: 2203 tattacagaccgaagatatattaaaccgtgtgacttgagggataaatatgggtctcctatattt
2262

|||||
Sbjct: 23398705 tattacagaccgaagatatattaaaccatgtgacttgagggataaatatgggtctcctatattt
23398646

Query: 2263 cacctctgagttagaaaccctccttcttttgttgaaacttacattccatataactccgattt
2322

|||||
Sbjct: 23398645 cacctctgagttagaaaccctccttcttttgttgaaacttacattccatataactccgattt
23398586

Query: 2323 gcttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctc
2382

|||||
Sbjct: 23398585 gcttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctc
23398526

Query: 2383 attcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatct
2442

|||||
Sbjct: 23398525 attcaactcctccctcgactctccaaggaggactatgtcatctgcaaaagagcatgcatct
23398466

Query: 2443 cggcgctatctcttg 2457
 |||||
Sbjct: 23398465 cggcgctatctcttg 23398451

Score = 561 bits (283), Expect = e-157
Identities = 286/287 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 30641542 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
30641483

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||
Sbjct: 30641482 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
30641423

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
 |||||
Sbjct: 30641422 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
30641363

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
 |||||
Sbjct: 30641362 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
30641303

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctcta 1929
 |||||
Sbjct: 30641302 tccaccatcttctctacaataggcgctactccaaccctctctcta 30641256

Score = 422 bits (213), Expect = e-115
Identities = 213/213 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||||

Sbjct: 23399078 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
23399019

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 23399018 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
23398959

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 23398958 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
23398899

Query: 1823 ctctcactacagagtctaccggtcttctctct 1855
|||||

Sbjct: 23398898 ctctcactacagagtctaccggtcttctctct 23398866

Score = 385 bits (194), Expect = e-104
Identities = 194/194 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 45676998 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
45677057

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 45677058 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
45677117

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 45677118 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
45677177

Query: 1823 ctctcactacaga 1836
|||||

Sbjct: 45677178 ctctcactacaga 45677191

Score = 317 bits (160), Expect = 2e-83
Identities = 166/168 (98%)
Strand = Plus / Plus

Query: 1827 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcca
1886
 ||||||||||||||||||||| |||||||||||||||||||||||||||||||||
Sbjct: 36354827 tcactacagagtctaccggtcgctctctctacatgcccaaaccacctaagtctattttcca
36354886

Query: 1887 ccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaattt
1946
 ||||||||||||||||||||| |||||||||||||||||||||||||||||||||
Sbjct: 36354887 ccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaattt
36354946

Query: 1947 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccg 1994
 ||||||||||||||||||||| |||||||||||||||||||||
Sbjct: 36354947 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccg 36354994

Score = 309 bits (156), Expect = 4e-81
Identities = 165/168 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||| |||||||||||||||||||||||||||||||||
Sbjct: 15426083 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
15426024

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 ||||||||||||||||||||| ||||| || |||||||||||||||||||||
Sbjct: 15426023 tcaagtaccatacttctatccaaatcattaagtttgagatcctttttgataacctctctt
15425964

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctcc 1810
 ||||||||||||||||||||| |||||||||||||||||||||
Sbjct: 15425963 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctcc 15425916

Score = 234 bits (118), Expect = 2e-58
Identities = 183/202 (90%), Gaps = 2/202 (0%)
Strand = Plus / Minus

Query: 4816 caatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatcca
4875
|||||
Sbjct: 17313020 caatatcatagctttattttagaaaaaa-gagatttaatagttaataactaaagaaattca
17312962

Query: 4876 aaagtttttcttttatttttattttgttcctattcaattctaattttgtcat-ttttttc
4934
||||
Sbjct: 17312961 aaagcttttcttttattttctattatcttcctattcaattctaattttgtcatcttttatc
17312902

Query: 4935 actgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgattattattt
4994
|||||
Sbjct: 17312901 actgtctctcatatttctctgtcatttcacttgtttcttcagtttacttgattattgttt
17312842

Query: 4995 tactttgatacattagccaata 5016
|||||
Sbjct: 17312841 cactttgacacattagccaata 17312820

Score = 228 bits (115), Expect = 1e-56
Identities = 179/199 (89%), Gaps = 1/199 (0%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256
|||||
Sbjct: 33344645 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
33344704

Query: 1257 tatctgatatgtggggtcattggccacacatgatattaaatttattttttgaaggggtggggc
1316
|||||
Sbjct: 33344705 tatctgatatgtggggcattgggtccacacgatattaaatttatttcttgaaggggagggc
33344764

Query: 1317 ctgacatagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgca
1376
| |||
Sbjct: 33344765 ccaacacagtagcttgctact-ggggtcgtcaagcgtcgcccttgtgttgactataaca
33344823

Query: 1377 tgggcctggcgccaccctac 1395
|||||

Sbjct: 33344824 tgggcctggcgccaccctac 33344842

Score = 224 bits (113), Expect = 2e-55
Identities = 197/225 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 85615 aaaattaattgtcacaaaatttattatctaaatttgcacataaatatacattaga
85674

Query: 5177 aatttttagtggttatatttagtgaaattaattttttataacataattgatgtattagttc
5236

|||||
Sbjct: 85675 aatttttagtggttatatatagcgccattattttttataatataattttattataagctt
85734

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 85735 agttgggttagagtggttgctgtaataacttgaaagacataggttcaattcttgcctggaaa
85794

Query: 5297 attaatTTTTAAATTAATTTGTAaaatatatttttgaaaaaaaaaat 5341

|||||
Sbjct: 85795 attaatTTTTAAATTAATTTGTAaaacatatatttttgaaaaaaaaaat 85839

Score = 190 bits (96), Expect = 3e-45
Identities = 96/96 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 1814062 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1814121

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcg 1738

|||||
Sbjct: 1814122 tcaagtaccatacttctatccaaaccattaatttcg 1814157

Score = 186 bits (94), Expect = 4e-44
 Identities = 189/218 (86%), Gaps = 2/218 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 1750297 aaaattaattgtcacaaaatttattatgtaaatttacctgacattaaatataaattaga
 1750238

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 1750237 aattcttagtggttatatatagtgatattaattattttataaggtaattgacttattagctc
 1750178

Query: 5237 agttgggttag-agcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
 5295
 |||||
 Sbjct: 1750177 aattgggttagaagcattgtgctaataatgtgaaagtcacatgttcaatttctgtatgggt
 1750118

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaa 5333
 |||||
 Sbjct: 1750117 cattaatttttaa-taatttgtaaaacatatatttttgaa 1750081

Score = 176 bits (89), Expect = 4e-41
 Identities = 140/157 (89%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 32326396 aaaattaattgtcacaaaatttattatctaaatttataatgcacattaaatatacattaca
 32326337

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 32326336 aatcttagtggttatatatagcgatattaattattttgtagcataattgggtctattagctc
 32326277

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtca 5273
 |||||
 Sbjct: 32326276 agttgggttagagcgattatgttaataacatgaaagtca 32326240

Query: 6636 ataaaattaatgttggttgccctgagcctacac 6667
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 24239139 ataaatttaatgttgttggttgagcctacac 24239170

Score = 172 bits (87), Expect = 7e-40
Identities = 199/235 (84%), Gaps = 1/235 (0%)
Strand = Plus / Plus

Query: 7522 attcaagggttcattgtatcatcgaggattcacccaaaccctccaaattcaaagagcttg
7581

||||| ||||||||| ||||||| ||||||||| | | ||||||||| ||||||||| ||
Sbjct: 19378046 attcatgggttcattgcttcatcgtgggtattcatctataccctccaaattcaaagagcttg
19378105

Query: 7582 cagaaactggtggtggttgtgcatatgtttatgtgggtgtgtctacggtgataacataaa
7641

||||| ||||||||| ||||||| ||||||| ||||||| || || || || || || ||
Sbjct: 19378106 tagaaattggtggtggatgtgcacatgtttgtgtgggtatgcctgtggtggaatatata
19378165

Query: 7642 actcaaggcatgtgaagttgaagagtttcccaaatatagaaaacatagtaattatttcct
7701

||| ||||||||| || || || || || | ||||||||| ||||||||| || || ||
Sbjct: 19378166 acttaaggcatgtgaggttgagagttt-caaaatatagaaaacatagtaattatgtcct
19378224

Query: 7702 catcatcttgcagcatacatgccctgtactgaaaacaatcaccaacaaatgatac 7756

||||||| |||| | ||||||||| | ||||||| ||||||||| ||
Sbjct: 19378225 catcatcgtgcaatgtgcatgccctgtattagccacaatcaacaacaaatgatac
19378279

Score = 165 bits (83), Expect = 2e-37
Identities = 280/344 (81%), Gaps = 5/344 (1%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttggtgtgt
6737

|||| ||||||||| || || || || || | ||||||||| |||||
Sbjct: 19236160 atgcaacacatggaacattgctttggttgacctaatcctcgaatatccatttcagtgtgg
19236219

Query: 6738 atacgagag--gagacatgacaacctttagaatttcttttcatttttgggttggggcaaa
6795

||| |||| | |||| | |||| | |||| | |||| | |||| | |||| | |||| |
Sbjct: 19236220 atatgagagaggagacaaggcaacccttagaatttcttttcatttttgggtcggggcaga
19236279

Score = 163 bits (82), Expect = 6e-37
Identities = 151/174 (86%)

Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177

Sbjct: 40141829 aaattaatttttacaaaatttattatctaaatttgcacataaatatacattaaaa
40141770

Query: 5178 attttagtggttatattttagtgaaattaattatttataacataattgatgtattagttca
5237

Sbjct: 40141769 attttagtggttatatataacaataattaattatttataacataattgatgtattagctta
40141710

Query: 5238 gttgggttagagcattatgttaataatgtgaaagtcataagttcaattcttactt 5291

Sbjct: 40141709 gttgggttatagtggtgtattaataatgtgaaattcataggttcaattcttactt
40141656

Score = 159 bits (80), Expect = 1e-35
Identities = 131/148 (88%)
Strand = Plus / Plus

Query: 6849 aatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttccta
6908

Sbjct: 25839794 aatcatttgtatatggtggagacactttccaacgtatactcaggatgtatgtagttccta
25839853

Query: 6909 tactcatggtgagcatgcttataaacaacaacatgagaacaaaacatgtgcattttttga
6968

Sbjct: 25839854 tactcatggtgaacatgcttacaagcaacaacatgagaacaaggcatgtgcaattttgtga
25839913

Query: 6969 aatttgtcacagtcacactacctttcat 6996

Sbjct: 25839914 aatttgtcacagtcacactacctttcat 25839941

Score = 157 bits (79), Expect = 4e-35
Identities = 79/79 (100%)
Strand = Plus / Plus

```
Query: 5177      aat ttt agt gtt ata ttt agt gaa att aatt at ttt tata acata att gat gt att agt tc  
5236            ||| | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 15695965 aat ttt agt gtt at gt ata gca acatt at ttt at ttt tagaat gta att ggct caa tagct c  
15696024
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Score = 151 bits (76), Expect = 2e-33
Identities = 94/100 (94%)
Strand = Plus / Plus

Query: 4313 catctttgcgcttgggacaataacgcagctagtgagggttctaaccgaggtgtgtctattg
4372
Sbjct: 33347200 catctttgcgcttggggcaatgacgcagctagtgagggttctaaccgaggcgctctattg
33347259

Query: 4373 ctggttgaaaactattttcaaaccctctgaggcctggg 4412
Sbjct: 33347260 ctggttgaaaactattttcaaaccctcttaggcctggg 33347299

Score = 147 bits (74), Expect = 4e-32
Identities = 128/146 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
Sbjct: 22165183 aaaattaattgtcacaaaattattatgtaaatttacatgtgcattaaatatacattaaa
22165124

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
Sbjct: 22165123 aattttcgtggttatatatagtgacattaattattttataacataattgggtctattagctc
22165064

Query: 5237 agttggtagagcattatgttaataa 5262
Sbjct: 22165063 aattggtagagcgttgtgctaataa 22165038

Score = 147 bits (74), Expect = 4e-32
Identities = 97/105 (92%), Gaps = 6/105 (5%)
Strand = Plus / Plus

Query: 241 cttgacacgacatatgacctatgata-----gcaattcaaacatgggttcatatcagctg
294
Sbjct: 22165063 cttgacacgacatatgacctatgata-----gcaattcaaacatgggttcatatcagctg
22165038

Sbjct: 33343837 cttgacacgacatatgacctatgatattgatagctattcaaacatgggtcatataagctg
33343896

Query: 295 agttgcagacttagctgctagcatttcacgttgtgaatgcaagag 339
|||||
Sbjct: 33343897 agttgcagacttagctgctagcatttcacgttgtgaatgcaagag 33343941

Score = 147 bits (74), Expect = 4e-32
Identities = 263/321 (81%), Gaps = 5/321 (1%)
Strand = Plus / Plus

Query: 7438 aatgaacaacacacatgacaactacaaatcattaaataatata-attacaatcaaataat
7496
|||||
Sbjct: 33765019 aatgaacaacacacatgaagactacaaatcatgaaataataaacataacaatcaacttat
33765078

Query: 7497 ttgggggagggggt--cttcaaaacttgattcaagggtcattgtatcatcgagggtattcac
7554
|| ||||| |
Sbjct: 33765079 tt-aggaggttttttcttcaaaaatcgattcaagggtcattgcttcatcaagggtattcat
33765137

Query: 7555 ccaaaccctccaaattcaaagagcttgcaaaaactgggtgggtgtgcatatgtttatg
7614
| |||||
Sbjct: 33765138 ctgaaccctccaaattccaaaagcttgcaaaaattagtggtgggtgtgcatatgtctgta
33765197

Query: 7615 tgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagtttccaa
7674
||||| || | |||||
Sbjct: 33765198 tgggtgtatcctcaatggtaacatataactcaatgcatgt-aagggtcatggagttccaa
33765256

Query: 7675 atatagaaaacatagtaattatttctcatcatcttgcaagcatacatgccctgtactgaa
7734
||| |||||
Sbjct: 33765257 ataaagaaaacatagtgattatatcatcattatcttgcaacttgcatgccctataataaa
33765316

Query: 7735 aacaatcaccaacaaatgata 7755
|||||
Sbjct: 33765317 aacaatcactaacaaatgata 33765337

Score = 147 bits (74), Expect = 4e-32
Identities = 77/78 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 36358632 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
36358691

Query: 1703 tcaagtaccataacttcta 1720
| |||||
Sbjct: 36358692 ttaagtaccataacttcta 36358709

Score = 145 bits (73), Expect = 1e-31
Identities = 136/157 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 114983 aaaattaattgtcacaaaatttattatgatgtaaatttacatgtgcattaaatatacattaga
114924

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 114923 aatttttagtggttatatataaaaaatattaattattttataacataattgggtctattaactt
114864

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273
| |||||
Sbjct: 114863 aattggtagagctttgtgttaataatgatgaaagtca 114827

Score = 145 bits (73), Expect = 1e-31
Identities = 127/145 (87%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177
|||||
Sbjct: 2439821 aaattaattgttacaaaatttattatataaaatttatatgtgtattaaatgtcattagac
2439762

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
5237
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 2439761 attttaatggttatatatagtgacattaattattttataacataattgatttattagctta
2439702

Query: 5238 gttggtagagcattatgttaataa 5262
||| ||||||| |||||||
Sbjct: 2439701 attgattagagcattgtgttaataa 2439677

Score = 143 bits (72), Expect = 6e-31
Identities = 115/128 (89%), Gaps = 1/128 (0%)
Strand = Plus / Plus

Query: 6526 ttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaatagaacaaaata
6585
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 356151 ttgaactaaaatatttaa-ttaccaaatagatatataaaattacaaacaatagaataaaaata
356209

Query: 6586 tttaaatttgaaataatacaacaaaaattttaaaatacaaaacaatatggcataaaattaa
6645
||||| ||| ||||||| ||| ||||||| ||||||| ||||||| ||||||| |||
Sbjct: 356210 tttaaatttaaacaatacaacaacatttttaaactacaaacgatatgacataaaacttaa
356269

Query: 6646 tggttggtg 6653
|||||
Sbjct: 356270 cggttggtg 356277

Score = 141 bits (71), Expect = 2e-30
Identities = 116/131 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||| ||||||| ||||||| ||||||| ||| ||| ||| ||||||| |||||||
Sbjct: 3915343 aaaattaattgttagaaaatttattatgtaaatttacaagtgattgaatatacattaga
3915284

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
| ||||||| ||||||| ||||||| ||||||| ||||||| ||| |||||||

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Query: 7550      ttcaccccaaacacctccaaattcaaagagcttgagaaaactgggtgggtggttgatcatatgt
7609            ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34265113 ttcataaaaatcctttaattt-aaagagcttgcaaaaattgggtggtgaaagtgcacttgt
34265055
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Query: 5177      aat ttt agt gtt ata ttt agt gaa att aatt at ttt tata acata att gat gt att agt tc  
5236           ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 33462442 aat ttt agt att ata tat ata gcgac att aatt at ttt tata acata att gact tatt agt ctc  
33462501
```

Query: 5237 agttgggta 5245
|||||||
Sbjct: 33462502 gggtgggta 33462510

Score = 135 bits (68), Expect = 1e-28
Identities = 140/164 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||||
Sbjct: 31352316 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatacattaaa
31352375

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||||
Sbjct: 31352376 aatttttagtggttatgtatagcaacattatttattttataacataattgactcattagctt
31352435

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtcaaaagttc 5280
|||||||
Sbjct: 31352436 agttgggtagaacgttggtgctaataacctgaaagtcacaagttc 31352479

Score = 135 bits (68), Expect = 1e-28
Identities = 119/136 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||||
Sbjct: 41149475 aaaattaattgtcacaaaatttattatgttaaatttacatattgcattaaatattgcattaga
41149416

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||||
Sbjct: 41149415 aatttttagtggttatataataacaacattagttattttataacttaattgatctattagttt
41149356

Query: 5237 agttgggtagagcatt 5252
|||||||
Sbjct: 41149355 agttgggtagagcatt 41149340

Score = 133 bits (67), Expect = 6e-28
Identities = 73/75 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 33670667 aacgccttatcccactaggtagggttggtacatggatcaacttccgccataatgttcta
33670726

Query: 1703 tcaagtaccatactt 1717
|||||
Sbjct: 33670727 tcaagtaccatactt 33670741

Score = 133 bits (67), Expect = 6e-28
Identities = 242/298 (81%), Gaps = 3/298 (1%)
Strand = Plus / Minus

Query: 7071 tgtcgcattaatcgaactcaagaacaatgtgagagtttgccttttctgtatgtctttca
7130
|||||
Sbjct: 34268325 tgtcgcattcaatgaaacttaagaacaatgtgagcatttgcctttctgtgtatcttcga
34268266

Query: 7131 tagccttggtttaatacttttgtataaaacttcaccaaataatcactcttgcgacttctc
7190
|
Sbjct: 34268265 tgaccttatttagtacttgtgtataaaacttgactagatgtaagcattgttgtgacttctc
34268206

Query: 7191 tccccctttggttgaacaatgcattacacctagtatagggttgattttaccaacacac--a
7248
||||
Sbjct: 34268205 tccctcttttgtcgaacaatgcattacaccttcgatatgttgattttactaacgcactta
34268146

Query: 7249 ttgccagattttgtgttttcttgagtaccaaattaattaactcagtggtcccatcgccag
7308
|||
Sbjct: 34268145 ttggtaaatttcttgttttcttaattaccaaattaatcgac-aattgtcccatgtgcag
34268087

Query: 1644 acgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta-
1702
|||

Sbjct: 39834080 acgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctat
39834021

Query: 1703 tcaagtaccatac-ttctatccaaa-ccattaatttc 1737
||| ||||| ||| ||||| ||||| |||||
Sbjct: 39834020 tcaggtaccatactttccatccaaacccattaatttc 39833984

Score = 127 bits (64), Expect = 3e-26
Identities = 134/156 (85%), Gaps = 1/156 (0%)
Strand = Plus / Plus

Query: 6520 gttgacttgaactaaaatattttaattacaaaatagatatgaaattacaaacaatagaac
6579
|||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 19538172 gttgaattgaactataatattttaattataaaaatattt-taaaattatcaacaacagAAC
19538230

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaattttaaaatacaaaacaatatggcataa
6639
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 19538231 aaaatattttaaatttgaaacaatacaacaaaaatttttagaatacaaagaatatgacatag
19538290

Query: 6640 aattaatggttggtggcctgagcctacacaatggggg 6675
| |||| ||||| ||| ||| ||||| |||||
Sbjct: 19538291 atttaacattggtggcctaagccttacacaatggggg 19538326

Score = 127 bits (64), Expect = 3e-26
Identities = 97/108 (89%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaataacattag
5175
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 23531516 aaaaattaattgtcaaaaaatatattatgtaaatttacatgtacattaaatatattag
23531457

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataatt 5223
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 23531456 aaattttagtggttatatatagtaacattaattattttataacataatt 23531409

Score = 125 bits (63), Expect = 1e-25

Identities = 87/95 (91%)
 Strand = Plus / Plus

Query: 5131 caaaatttattatctaaatttgcacgcacaataaatatacattagaaatttttagtggttat
 5190
 |||
 Sbjct: 45554595 caaaatttattatgtaaatttgcacgcacattaagtatacattagaaatttttagtggttat
 45554654

Query: 5191 atttagtgaaattaattattttataacataattga 5225
 || || || |||
 Sbjct: 45554655 atataacgacattaattattttataacataattga 45554689

Score = 123 bits (62), Expect = 5e-25
 Identities = 116/134 (86%)
 Strand = Plus / Minus

Query: 6678 atgacgacacatggaacatcatttttggtttacctgattcttgatattccattttggtgtgt
 6737
 |||
 Sbjct: 34268716 atgacgacacacgaaacatcgtttttggttgacttaattctcgatattccattttggtgtgtg
 34268657

Query: 6738 atacgagaggagacatgacaacccttagaattttcttttcatttttgggttggggcaaatt
 6797
 |||
 Sbjct: 34268656 atacgagaggagacacgacaacccttagaattttcttttcatttttgggttggggcaaaca
 34268597

Query: 6798 cttggcttgatgaca 6811
 |||
 Sbjct: 34268596 attggcttgatgaca 34268583

Score = 123 bits (62), Expect = 5e-25
 Identities = 110/126 (87%)
 Strand = Plus / Plus

Query: 5123 aattgttacaaaatttattatctaaatttgcacgcacaataaatatacattagaaatttt
 5182
 |||
 Sbjct: 40199202 aattgtcacaaaatttattatgtaaatttatattacattaagtatatattagaaatttt
 40199261

Query: 5183 agtggttatatttagtgaaattaattatattttataacataattgatgtattagttcagttgg
 5242
 |||||
 Sbjct: 40199262 agtggttatataacggcattaattatattttataacataattgggtctattagttcagttgg
 40199321

Query: 5243 ttagag 5248
 |||||
 Sbjct: 40199322 ttagag 40199327

Score = 121 bits (61), Expect = 2e-24
 Identities = 115/133 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
 5176
 |||||
 Sbjct: 5281239 aaaattagtcgtcacaaaatttattatgtaaatttacatgtgtattaaatatacattaaa
 5281298

Query: 5177 aatttttagtggttatatttagtgaaattaattatattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 5281299 aatttttagtggttatatatagagacattaattatattttataacataattgacctattaactt
 5281358

Query: 5237 agttgggtagagc 5249
 |||||
 Sbjct: 5281359 agttgggtagagc 5281371

Score = 121 bits (61), Expect = 2e-24
 Identities = 67/69 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 5799775 aacgccttatcccactaggtgggggtcggctacatggatcaacttctgccataatgttcta
 5799716

Query: 1703 tcaagtacc 1711
 |||||
 Sbjct: 5799715 tcaagtacc 5799707

Score = 121 bits (61), Expect = 2e-24
Identities = 163/197 (82%)
Strand = Plus / Minus

Query: 7563 tccaaattcaaagagcttgcagaaactggtggtggttgatgcatatgtttatgtgggtgtg
7622
||||||| ||| || ||||| ||| ||| ||||| ||||| ||| |||||
Sbjct: 11435891 tccaaattcatagaactggcagaaattggttggtgatgacacatgtttgtgtagggtgtg
11435832

Query: 7623 tctacggtgataaacataaaactcaaggcatgtgaagttgaagagtttcccaaatatagaa
7682
| | ||||| ||| ||||| ||||| ||| ||| || ||||| |||||
Sbjct: 11435831 tttgtggtgataaatatataactctaggcatgtgagcttcgagaattatccaaacatagaa
11435772

Query: 7683 aacatagtaattatttctcatcatcttgcagcatatgcctgtactgaaaacaatca
7742
||||||| ||||| ||||| ||||| ||||| ||| ||||| ||||| ||| |||||
Sbjct: 11435771 aacatagtcattatgtccttatcatcatgcaacatgcatgccttgattggccacaatca
11435712

Query: 7743 ccaacaaatgatacggg 7759
|||||||
Sbjct: 11435711 ccaacaaatgatacggg 11435695

Score = 121 bits (61), Expect = 2e-24
Identities = 133/157 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||||| ||||| ||||| ||||| ||||| ||| ||| ||||| |||||
Sbjct: 12062502 aaaattaattgtcacaaaatttattatataaaatttacatgtgcattaaatatatattaga
12062443

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||| ||||| ||| | ||||| ||||| ||||| ||||| ||| |||
Sbjct: 12062442 aatttttagtggttatataataacaacattaattattttataacgtaattgtcatatcagctc
12062383

Query: 5237 agttggttagagcattatgttaataatgtgaaagtca 5273
| ||||| ||| | ||||| ||||| |||||
Sbjct: 12062382 aattggttagagtgtcgtgctaataatgtgaaagtca 12062346

Score = 119 bits (60), Expect = 9e-24
Identities = 99/112 (88%)
Strand = Plus / Minus

Query: 5130 acaaaatattattatctaaatttgcacatgcacaataaatatacattagaaatatttagtggtta
5189
||||| |||||| | |||||| | |||||| | |||||| | |||||| | ||||
Sbjct: 46266982 acaaaacttattatttaaatttacatgcacattaaatatacattagaaatatttagtggtta
46266923

Query: 5190 tatttagtgaaattaattattttataacataattgatgtatttagttcagttg 5241
||| || | |||| | |||||| | |||||| | |||| | |||||
Sbjct: 46266922 tatataataacattattttattttataacataattgacttattagctcagttg 46266871

Score = 115 bits (58), Expect = 1e-22
Identities = 175/214 (81%), Gaps = 5/214 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
||||| |||||| | |||||| | |||| | ||| | ||||| |||||| |
Sbjct: 42965665 aaaattaattgtcacaaaatttattatgtaaacttatatgtgtattaaatatacattata
42965606

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatttagttc
5236
||||| |||||| | ||| | |||||| | |||||| | ||||| ||
Sbjct: 42965605 aatttttagtggttatatatagcggtattaattattttataacataattaacctattaattt
42965546

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||| | || | || |||||| | |||||| | || | || | |||||
Sbjct: 42965545 agtt----gaacgttggtgtaataatgcaaaagtcataaatttaagtctcgcatggatc
42965491

Query: 5297 attaatttttaaattaatttgtaaaatatattttt 5330
||||| |||||| | || |||||| |
Sbjct: 42965490 attaatttttaaattaattttaaatatatatattttt 42965457

Score = 113 bits (57), Expect = 5e-22

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 33462287 aaaattaattgtcaccaaatttattacgtaaatatatatgtgcattaaatatacattaga
 33462228

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 33462227 aatttttaattttatatataatgacattaattattttataacatgattgatctattaattc
 33462168

Query: 5237 agttggtagag 5248
 |
 Sbjct: 33462167 aattggtagag 33462156

Score = 111 bits (56), Expect = 2e-21
 Identities = 140/168 (83%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 |||||
 Sbjct: 46267017 taaatatacattgaaaattttacggttatatacagcaacattatttattttataacataa
 46267076

Query: 5222 ttgatgtattagttcagttggtagagcattatgttaataatgtgaaagtcaaaagttca
 5281
 ||||
 Sbjct: 46267077 ttgacatattaacttagttgattagagtgtcgtgctaataacatgaaagtcataagttca
 46267136

Query: 5282 attcttacttggatcattaatttttaaattaatttgtaaaatatatttt 5329
 ||||
 Sbjct: 46267137 atttttgcttggaccattaatttttaaattaatttcgtaaaatatatttt 46267184

Score = 109 bits (55), Expect = 8e-21
 Identities = 124/146 (84%), Gaps = 2/146 (1%)
 Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
 5177
 |||||
 Sbjct: 44359965 aaattaattgttaaaaaaattattatgtaaactt--atgtatattaaatatacattagaa
 44359908

Query: 5178 attttagtggttatatttagtgaaattaattatatttataacataattgatgtattagttca
5237

|||||
Sbjct: 44359907 attttagtggttatataataacaatattaattatatttttaataataattgatttattaactga
44359848

Query: 5238 gttgggttagagcattatgttaataat 5263

|||||
Sbjct: 44359847 gttgggttagagtggttatgttaataat 44359822

Score = 107 bits (54), Expect = 3e-20
Identities = 57/58 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttc 1700

|||||
Sbjct: 182782 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttc
182839

Score = 107 bits (54), Expect = 3e-20
Identities = 96/110 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 3915439 aaaattaattgtcagaaaatttattatgttaaatttacatgtgcattaaatatacattaaa
3915498

Query: 5177 aatttttagtggttatatttagtgaaattaattatatttataacataattgat 5226

|||||
Sbjct: 3915499 aatttttaataattatataatagcgacattaattatatttataataataattgat 3915548

Score = 107 bits (54), Expect = 3e-20
Identities = 123/146 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||

```
Query: 7162      accaaatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacct
7221           | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 19236647 gctagatgtaagcattgttgtgacttctctccctcttttgtaaacaatgcattacacct
19236706
```

```
Query: 6584      tattttaaatttgaaataatacaacaaaaatttttaaatacaaaacaatatggcataaaatt
6643            |||||||||||||||||||
Sbjct: 19236044 tattttaaatttgaaacaatacatcaaaatttttaaatacaaaagaatatgacataaaattt
19236103
```


Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 46057021 aaaattaattatcacaaaatttattatgtaaatttacatgtgcattaaatatatattaaa
46057080

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 46057081 aatttttagtggttatatataacgcacattaattattttatagcataatt 46057127

Score = 99.6 bits (50), Expect = 8e-18
Identities = 122/146 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 24348306 aaaattaattatcacaaaatttattatttaatttacatgcgcattaaatatgtattaga
24348365

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||| | |||| | || | |||| | |||| | ||||| | ||||| | |||| | |||| |
Sbjct: 24348366 aattgtagtgatgtatagtaacattatttattttataacctaattgggttcattattcc
24348425

Query: 5237 agttggtagagcattatgttaataa 5262
||||| | |||| | |||| | |||| | |||| | |||| | |||| | |||| |
Sbjct: 24348426 agttggtagagcgttgtgctaataa 24348451

Score = 99.6 bits (50), Expect = 8e-18
Identities = 71/78 (91%)
Strand = Plus / Plus

Query: 339 ggaaaaatacatagaaaaagagggaacaaaattgttaaccctccatattgtacagggtttta
398
||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 33344089 ggaaaaatacatagaagaagagggaacaaaattgttagcttcccaatgtacagggtttca
33344148

Query: 399 gcctcaattttaccatt 416
||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 33344149 gcctcaattttaccatt 33344166

Score = 99.6 bits (50), Expect = 8e-18
Identities = 174/214 (81%), Gaps = 1/214 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||||| | |||||||||||| |||||| | ||| | |||||||||||| |
Sbjct: 37972573 aaaattaattgtcataaaatttattatttaaatttatatgcgcattaaatatacattata
37972632

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||||||||||| || | ||| |||||||||| | |||| | |||| |
Sbjct: 37972633 aatttttagtggttatatataacaatattattttattttataatgtaattgggtcattagctt
37972692

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 | ||||| | | || |||||||| | |||||| | ||| | | | | |
Sbjct: 37972693 aattgggttggaatgttggttaataacttgaaagtcacatgttcgatttttgctt-gatc
37972751

Query: 5297 attaatttttaaattaatttgtaaaatatattttt 5330
 |||||||||||||| |||| | | ||||||||
Sbjct: 37972752 attaatttttaaattcatttgtcacaaatatatttt 37972785

Score = 99.6 bits (50), Expect = 8e-18
Identities = 101/118 (85%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 ||||||| |||||||||||||||||||||| ||| | | |||||||| | |||||||
Sbjct: 42138630 taaatatatattagaaaatttttagtggttatatatagtaataactaattatttaataacataa
42138571

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataatgtgaaagtcaaaagtt
5279
 || | |||||||| ||| |||||| | | | |||||||| | |||| | ||||
Sbjct: 42138570 ttaacctattagtttagtttagtgagtggtgtattaataatgtaaaagtcataagtt
42138513

```
Query: 5117      aaaattaattgttacaaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176           |||
Sbjct: 33822182 aaaattaattgtcacaaaaattttattatctacatttacacgtgtattaaatatacattaaa
33822123
```

Score = 95.7 bits (48), Expect = 1e-16
Identities = 96/110 (87%), Gaps = 4/110 (3%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaataataattaataagtaataattttttatca
4817
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46633194 taactgttattctttttattgatacagtaacaat---taataagtaacaactcttcatca
46633250

Query: 4818 atatcatagctttgtttagaaaaaaagagatttaataattaatagctaaa 4867
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46633251 atatcataactttgtttag-aaaaaagagatttaataagtttaataagttaaa 46633299

Score = 93.7 bits (47), Expect = 5e-16
Identities = 111/131 (84%), Gaps = 1/131 (0%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcacataataataacattagaaatttttagtggtata
5191
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 30931257 aaaatttattatgtaaatttacatgtgcattaaatata-attagaaattttaatgttata
30931199

Query: 5192 tttagtgaattaattattttataacataattgatgtattagttcagttgggttagagcat
5251
| ||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 30931198 tatagcgacattaattatttttaggacataattggcctattagctcagtttggttagagtat
30931139

Query: 5252 tatgttaataa 5262
|||||
Sbjct: 30931138 cttgttaataa 30931128

Score = 93.7 bits (47), Expect = 5e-16
Identities = 110/131 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataataataacattaga
5176
||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34678679 aaaattagttattacaaaatttattatgtaaatttatatgtgcattaaatatatataaa
34678738

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||| ||||| || || || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34678739 aattttaatggttatatataataatattaattattctataacataattaatttattaactc
34678798

Query: 5237 agttggtaga 5247
|||||
Sbjct: 34678799 agttgattaga 34678809

Score = 91.7 bits (46), Expect = 2e-15
Identities = 91/106 (85%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177
|||||
Sbjct: 2440036 aaattaattgtcacaaaatttattatataaaatttacatatacattaagtatacattaaaa
2440095

Query: 5178 attttagtggttatatttagtgaaattaattttttataacataatt 5223
|||||
Sbjct: 2440096 attttaattattatgtgaacgatattaattttttataatataatt 2440141

Score = 91.7 bits (46), Expect = 2e-15
Identities = 73/82 (89%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttatgaataaataaaaagggtttattcttaaatgtgcttgag
5073
|||||
Sbjct: 11335462 ataattttaataaactatatttatgagtaataaaaagacttcattcttaaatgtgttttag
11335521

Query: 5074 ccctctcaagtccttgagccgc 5095
|
Sbjct: 11335522 gcttctcaagtccttgagccgc 11335543

Score = 91.7 bits (46), Expect = 2e-15
Identities = 64/70 (91%)
Strand = Plus / Plus

Query: 633 ttacttaagttagtaatagtagagtgatgtttgatgaattaaacttaagattggttgaag
692
|||||
Sbjct: 24441084 ttacttaagttagtcatagtacaatgatatttgattaattaaacttaagattggttgaag
24441143

```
Query: 62      ggacaattttgatttctgggttaatgggtgtattaaaaatatcagaaaactttcaaatatc
121           |||||

Sbjct: 33362908 ggacaactttgatttctgggttatgggtgtcttaaaa-tatcagaaaactttcaaatatc
33362966
```

Query: 122 tcgagcaggc 131
 | |||||
Sbjct: 33362967 ttgagcaggc 33362976

Score = 89.7 bits (45), Expect = 8e-15
Identities = 113/135 (83%), Gaps = 3/135 (2%)
Strand = Plus / Minus

Query: 6881 cgtatacacaagatgtatgtagttcctatactcatggtgagcatgcttataaa---caac
6937
 |||||
Sbjct: 17144506 cgtatacacaagatgtatgtagttttgtactcatgatgaggattcttacaagaagcaac
17144447

Query: 6938 aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
6997
 |||||
Sbjct: 17144446 aacatgataacaaggcatgtgcaacttctggaatttgtcatagtcacactacctttcatc
17144387

Query: 6998 tagcttgaccatgaa 7012
 ||| |||
Sbjct: 17144386 cagcatgacaatgaa 17144372

Score = 89.7 bits (45), Expect = 8e-15
Identities = 57/61 (93%)
Strand = Plus / Minus

Query: 5289 cttggatcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaa
5348
 |||||
Sbjct: 23524654 cttggaccattaatttttaaattaatttgtaaaattatatatttttgaaaaaaaaattataaaa
23524595

Query: 5349 a 5349
 |
Sbjct: 23524594 a 23524594

Score = 89.7 bits (45), Expect = 8e-15
Identities = 108/129 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

 |||||||||||||||| | |||||||| | || | | | |||||||||||||
 Sbjct: 34357841 aaaattaattggttacagaatttattatataaaacttgtaaatacggtgaatatacattaga
 34357782

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

 |||||||| | |||||| | | | | ||||||||||||||||||||| ||||| |
 Sbjct: 34357781 aatttttagcggttatataataacattaattattttataacataattggcctattagctc
 34357722

Query: 5237 agttggtta 5245
 | |||||||
 Sbjct: 34357721 aattggtta 34357713

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 89/104 (85%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacattag
 5175

 |||||||||||||| | |||||||||||| | |||||| | || | | |||||| | |||||
 Sbjct: 30260 aaaaattaattggtcataaaaatttattatttaaatttacatgtgcattaaatatgcattag
 30319

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacat 5219

 |||||||||||||||| | || | |||| | |||||||||||||
 Sbjct: 30320 aaatttttagtggttatgtatatcaacattatttattttataacat 30363

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 89/104 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

 |||||||||||||||| | |||||||| | |||||| | || | | |||||| | |||| |
 Sbjct: 782965 aaaattaattggttacacaatttattatttaaatttacatgagtattaaatatattata
 782906

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacata 5220

 |||||| | |||||| | | | | | |||||||||||||||||
 Sbjct: 782905 aattttaatggttatataatttatatgaattattttataacata 782862

Score = 87.7 bits (44), Expect = 3e-14
Identities = 95/112 (84%)
Strand = Plus / Plus

Query: 6729 ttggtgtgtatatacgagaggagacatgacaaccttagaatttcttttcatttttgggttg
6788
 ||||| || | ||||| ||||| ||| ||||| ||| | ||| |||||
Sbjct: 19538400 ttggtgtggatgcaagaggagacatgacgacccttagaatttctcttctgttaggttg
19538459

Query: 6789 gggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcacaatt 6840
 || | || ||||| ||||| ||| ||||| |||||
Sbjct: 19538460 ggaccgatcattggcttgtgacatagtgaccaatatgtttcattgcacaatt 19538511

Score = 87.7 bits (44), Expect = 3e-14
Identities = 68/76 (89%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175
 |||| | |||| ||| ||||| ||||| ||||| ||| ||| ||||| |||||
Sbjct: 21971337 aaaaaataattattataaaaatttattatataaatttacatgtacattaaatataaattag
21971396

Query: 5176 aaatttttagtggtata 5191
 ||||| ||||| |||||
Sbjct: 21971397 aaatttttagtggtata 21971412

Score = 87.7 bits (44), Expect = 3e-14
Identities = 110/131 (83%), Gaps = 2/131 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| |||| | ||||| ||||| ||||| ||| | ||||| |||||
Sbjct: 41560091 aaaattaattatcacaaaatttattatctaaatttatatatatatcaaatatatattaga
41560032

Query: 5177 aatttttagtggtatatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| ||||| | | | ||||| ||||| ||||| ||| |||| |

Sbjct: 41560031 aattttattggttatat--aataatattaattatttttataacataattaatctattaactc
41559974

Query: 5237 agttgggttaga 5247
|||||||
Sbjct: 41559973 gggtgggttaga 41559963

Score = 87.7 bits (44), Expect = 3e-14
Identities = 68/76 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||||
Sbjct: 42138695 aaaattaattggttacaaaatctattatataaaatttacatgtacattaaatatacattaaa
42138754

Query: 5177 aatttttagtggttatat 5192
|| |||||
Sbjct: 42138755 aaatttagtatttatat 42138770

Score = 85.7 bits (43), Expect = 1e-13
Identities = 46/47 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccg 1689
|||||||
Sbjct: 14535420 aacgccttatcccactagatggggctcggctacatggatcaacttccg 14535374

Score = 85.7 bits (43), Expect = 1e-13
Identities = 68/75 (90%), Gaps = 1/75 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattag-
5175
|||||||
Sbjct: 33486649 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatgcattaga
33486708

Query: 5176 aaatttttagtggttat 5190
|||||||
Sbjct: 33486709 aaattttaatgttat 33486723

Score = 85.7 bits (43), Expect = 1e-13
Identities = 52/55 (94%)
Strand = Plus / Minus

Query: 5013 aataatTTTtaataaattatTTTtatgaataaataaaaggTTTtattcttaaatttg 5067
|||||
Sbjct: 33522587 aataatTTTtaataaactatTTTtatgagtaaataaaaggTTTcattcttaaatttg
33522533

Score = 85.7 bits (43), Expect = 1e-13
Identities = 79/90 (87%), Gaps = 2/90 (2%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatTTTtagtgTTtatatTTtagtgaaattaattatTTTataacataa
5221
|||||
Sbjct: 34223935 taaatatacattagaaaatTTTtagtgTTtatataataacta--ttatttattTTTataacataa
34223878

Query: 5222 ttgatgtattagttcagttggttagagcat 5251
|||||
Sbjct: 34223877 ttgatctattaagtcagttggttagagcat 34223848

Score = 85.7 bits (43), Expect = 1e-13
Identities = 91/107 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatTTTattatctaaatTTTgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 45612591 aaaattaattgtcacaaaatTTTattatTTTaaatTTTacatgtgtatttagtatacattaga
45612532

Query: 5177 aatTTTtagtgTTtatatTTtagtgaaattaattatTTTataacataatt 5223
|||||
Sbjct: 45612531 aatTTTtagtgTTtatataataacaacattatTTTattTTTataatataatt 45612485

Score = 85.7 bits (43), Expect = 1e-13
Identities = 55/59 (93%)

Strand = Plus / Plus

Query: 4828 tttgttttagaaaaaaagagatttaataattaatagctaaagaaatccaaaagtttttct
4886

 |||||
Sbjct: 46121165 tttgttttagaaaaaaagagatttaatgattaatagctaaagaaattcaaaaatttttct
46121223

Score = 83.8 bits (42), Expect = 5e-13
Identities = 75/86 (87%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221

 |||||
Sbjct: 41714501 taaatatgcattagaaattttagtattatatataacaacattaattattttataatacaa
41714560

Query: 5222 ttgatgtattagttcagttggttaga 5247

 |||||
Sbjct: 41714561 ttgatatttagttaagttggttaga 41714586

Score = 81.8 bits (41), Expect = 2e-12
Identities = 116/141 (82%)
Strand = Plus / Plus

Query: 7081 atcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttggt
7140

 |||||
Sbjct: 19538653 atcgaactcaagaacaatgtgagcatttgcctttcttgtgcgctcttcgatgaccatgtt
19538712

Query: 7141 taatacttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctccccctttg
7200

 ||
Sbjct: 19538713 tagtacttgcatataaaacttagctagatgtaagcattgctgcgacttctctccctctttt
19538772

Query: 7201 gttgaacaatgcattacacct 7221

 |||||
Sbjct: 19538773 gttgaacaatgcattacacct 19538793

```
Query: 5177      aat ttttagt gttatat atttagtgaaattaattat tttataacataattga 5225
                ||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 23600233 aat ttttaattttatgtataacaacattat tttat tttataaatataattga 23600281
```

```
Query: 5177      aat ttt agt gtt ata tt t agt ga aa tta att at ttt ata ac ata att ga 5225
                ||| |||| | |||| | |||| | |||| | |||| | |||| | |||| | |||| |
Sbjct: 41966384 aat gt tta gt t tat ata ta t agt ga ta tta att at ttt ata ac att att ga 41966336
```

```
Query: 5177      aat ttt agt gtt ata ttt agt gaa att aatt at ttt tata acata att gat gt att agt tc  
5236           ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 45011827 aat ttt agt att ata tat ata gcg acg tt aatt at ttt ttt taacata att agt ct att agt ct  
45011886
```


Query: 5128 ttacaaaattttattatctaaatttgcacatgcacaataaatatacattagaaatTTtagtgt
5187
|||||
Sbjct: 33126683 ttacaaaattttattatataaaatttatatgtacattaaatataaaattaaaaatTTtagtga
33126742

Query: 5188 tatatttagtgaaattaattattt 5211
|||||
Sbjct: 33126743 tatatatagtgcattatttattt 33126766

Score = 79.8 bits (40), Expect = 7e-12
Identities = 106/128 (82%)
Strand = Plus / Plus

Query: 6713 ttcttggatatccattttgggtgtgtatacgagaggagacatgacaacctttagaatttct
6772
|||||
Sbjct: 33760768 ttctttgatatccattttgggtgtgtatatgagaggatactggacaacctttagaattttt
33760827

Query: 6773 tttcatttttgggttggggcaaattcttggcttgtgacatgggtgaccaacatgcttcatt
6832
| |||||
Sbjct: 33760828 taacattgtttggctcgggctagattagtgggttgtgacattgtggccaatacgtttcatt
33760887

Query: 6833 gcacaatt 6840
|||||
Sbjct: 33760888 gcacaatt 33760895

Score = 79.8 bits (40), Expect = 7e-12
Identities = 138/168 (82%), Gaps = 2/168 (1%)
Strand = Plus / Minus

Query: 5163 aaatatacattagaaatTTtagtgttatatttagtgaaattaattattttataacataat
5222
|||||
Sbjct: 41151808 aaatatacattaaaaaatttagtattacatata-tgaaattaattattttataatataat
41151750

Query: 5223 tgatgtatttagttcagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaa
5282
||| |||||
Sbjct: 41151749 tgacctattagctcgggttgatta-tgcgttgtgctaataatgtaaaagtcaggtttga
41151691

Query: 5283 ttcttacttggatcattaatnttttaaattaatttgtaaaatatatntttt 5330
 ||| | ||| ||||| ||||| ||||| || || ||||| ||||| |||||
 Sbjct: 41151690 gacttgcatggaccattaatnttttaaattgnttcgtaaaatatatntttt 41151643

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 85/100 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatntttattatctaaatnttgcatgcacaataaatatacatntaga
 5176
 ||||| ||||| | ||||| ||||| ||||| || || || | ||||| ||||| || ||
 Sbjct: 41318794 aaaattaattatcacaaaatntttattatnttaaatttacacgcatatntaaatatacattaaa
 41318853

Query: 5177 aatntttagtgttatatntttagtgaattaattatntttataa 5216
 ||||| ||||| | || | |||| ||||| ||||| |||||
 Sbjct: 41318854 aatntttaatgttatgtataataacattatntttatntttataa 41318893

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 90/107 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatntttattatctaaatnttgcatgcacaataaatatacatntaga
 5176
 ||||| ||||| | ||||| ||||| || ||||| ||||| ||||| ||||| || || ||
 Sbjct: 783165 aaaattaattatcacaaaatntttatcattntaaatttatatgcacattaaatatatntgaa
 783224

Query: 5177 aatntttagtgttatatntttagtgaattaattatntttataacataatt 5223
 ||||| || ||||| || | ||||| ||||| ||||| ||||| |||||
 Sbjct: 783225 aatntttaatattatatataataacattntatntttataatataatt 783271

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 61/67 (91%), Gaps = 1/67 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatntttattatctaaatnttgcatgcacaataaatatacatntaga
 5176
 ||||| ||||| ||||| ||||| ||||| || || || ||||| || || ||||| ||||| |||||
 Sbjct: 1278173 aaaatcaattggttacaaaatntttattatntaa-tttacatgcgcatntaaatatacattaga
 1278115

Query: 5177 aatttta 5183
 |||||
 Sbjct: 1278114 aatttta 1278108

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 84/99 (84%)
 Strand = Plus / Minus

Query: 5125 ttgttacaaaatttattatctaaatttgcacataacattagaaatttttag
 5184
 |||| | ||||| ||||| ||||| | ||||| ||||| ||||| |||||
 Sbjct: 12037085 ttgtcacaaaatttattatttaaatttatatgcataataacattaaaaatttta
 12037026

Query: 5185 tgttatatttagtgaaattaattatatttataacataatt 5223
 ||||| || | |||| | ||||| ||||| |||||
 Sbjct: 12037025 tgttatatataacaacattatttattttataatataatt 12036987

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 57/63 (90%)
 Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataacattagaaatttttagtggtta
 5189
 ||||| ||||| ||| ||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 23298172 acaaaatttattatgtaaatttacatatacattaaatataaattagaaatttttagtggtta
 23298113

Query: 5190 tat 5192
 |||
 Sbjct: 23298112 tat 23298110

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 139/168 (82%), Gaps = 7/168 (4%)
 Strand = Plus / Minus

Query: 7459 ctacaaatcattaaataatacaattacaatcaaataatttggggg-agggggg----tcttc
 7513
 ||||| ||||| ||| |||| | ||||| ||||| ||||| |||||
 Sbjct: 32579449 ctacaaatcattaaatgataaaattt-actcaaataaattggggggaggggggagtttcttc
 32579391

Query: 7514 aaaacttgattcaagggttcattgtatcatcgaggatttcacccaaaccctc-caaattca
7572

 ||||| ||||| ||||| ||||| | | ||||| ||||| | ||| ||| ||||| |
Sbjct: 32579390 aaaactcgattcatgggttcattgtttaagcgaggatttcattctaaatcctcaaaaattga
32579331

Query: 7573 aagagcttgcagaaactgggtgggtggttgcatatgtttatgtgggtg 7620

 ||||| ||||| ||||| ||||| ||||| ||||| ||| |||||
Sbjct: 32579330 aagagctaacagaaattgggtgggtgatgtgcacatgtttgtgtaggtg 32579283

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgtttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

 ||||| ||||| | | ||||| ||||| ||||| ||||| ||| ||||| ||||| |||||
Sbjct: 37908360 aaaattaattatcataaaattaattattttaaatttacatgcgcattaaatatacattaga
37908301

Query: 5177 aatttttagtggttatatttttagtgaaattaattattttataacataatt 5223

 ||||| ||||| || || | ||||| ||||| ||||| |||||
Sbjct: 37908300 tatttttagtcttatataataacaacattattttattttataaatataatt 37908254

Score = 77.8 bits (39), Expect = 3e-11
Identities = 66/75 (88%), Gaps = 5/75 (6%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggttaagatcaagtgtagtagtatctgttcttatcagtttaa
1256

 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38883042 tcatagctttctcggccttttggttaggatcaagtgtagta-----tcttatcagtttag
38883096

Query: 1257 tatctgatatgtggg 1271

 ||| ||||| ||||| |||||
Sbjct: 38883097 tatttgatatgtggg 38883111

Score = 77.8 bits (39), Expect = 3e-11
Identities = 77/87 (88%), Gaps = 2/87 (2%)
Strand = Plus / Minus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTtATc
4816

||||| ||||||| ||||||| ||| ||| ||||||| ||| ||| |||
Sbjct: 42533657 taacgggttaatctttttattggtacctaagtaataattaataagtaacaactcttcac
42533598

Query: 4817 aatatcatagctttgt-ttagaaaaaa 4842

||||| ||| ||| ||| ||| ||| |||
Sbjct: 42533597 aatatcataactttgtgtagaaaaaa 42533571

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176

||||| ||||||| ||||||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 44360060 aaaatcaattgttacaaaatttattatgtaaacttatatgtgtattaaatatatattaga
44360119

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTtataacataatt 5223

|| ||||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 44360120 aaatttagtggttatataataacaacattaattatTTTtataacataatt 44360166

Score = 77.8 bits (39), Expect = 3e-11
Identities = 107/130 (82%), Gaps = 6/130 (4%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176

||||| ||||||| ||||||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 46216556 aaaattaattgtcacaaaatttattatTTTaaatttacat-----tagatatacattata
46216609

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTtataacataattgatgtattagttc
5236

||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 46216610 aatttttagtggttatataataacaacattatTTTtataatgtaattgactcattagctc
46216669

Query: 5237 agttggtag 5246

||||| |||
Sbjct: 46216670 agttggtag 46216679

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||

Sbjct: 43380138 aaaattaattgtcacaaaatttattatTTTaaatgtacatgagcattaaatatacattaaa
 43380197

Query: 5177 aatttttagtggttat 5190
 |||||
 Sbjct: 43380198 aatttttagtattat 43380211

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 103/125 (82%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 |||||
 Sbjct: 23963352 aaaattaattttcataaaaatttattatgtaaatttacatgtgcattgaatatgcattaac
 23963293

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 23963292 aaatttagtggttatatatagtgacattaatcattttataatgtatttgacttattagctc
 23963233

Query: 5237 agttg 5241
 |||||
 Sbjct: 23963232 agttg 23963228

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 50/53 (94%), Gaps = 1/53 (1%)
 Strand = Plus / Plus

Query: 650 agtagagtgatgtttgatgaattaaacttaagattgggtgaagttattgatct 702
 |||||
 Sbjct: 33344385 agtatagtgatgtttgattaattaaacttaag-ttggttgaagttattgatct
 33344436

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 42/44 (95%)
 Strand = Plus / Plus

Query: 6037 agagtTTTTTTTatccaaataataaaaaaaaaattaattatttac 6080
 |||||

Sbjct: 355690 agagttttttttatccaaataatacaaaataaattaattatttac 355733

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 103/124 (83%), Gaps = 1/124 (0%)
 Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacacataacattagaa
 5177

||||| ||||||| ||||||| ||||||| |||| | ||| ||| |||||||
 Sbjct: 12644900 aaattaattattacaaaatttattatttaaatttatatgcgtattaattatatattagaa
 12644959

Query: 5178 attttagtggttatattttagtgaaattaattattttataacataattgatgtattagttca
 5237

||||| ||||||| |||| | |||| ||| ||||||| |||| | |||| |||
 Sbjct: 12644960 attttggtgttatatatagtaattatttta-attataacataattaatctattaattta
 12645018

Query: 5238 gttg 5241

||||
 Sbjct: 12645019 gttg 12645022

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 70/80 (87%), Gaps = 1/80 (1%)
 Strand = Plus / Plus

Query: 6849 aatcatttgtacatggttatagatacttttcagcgtatacacaa-gatgtatgtagttcct
 6907

||||| |||||| | || |||| || | |||| |||| ||||||| |||||||
 Sbjct: 24239362 aatcatttgtatatgttgagacactttccaatgtatatacaaagatgtatgtagttcct
 24239421

Query: 6908 atactcatggtgagcatgct 6927

||||| ||||||| |||||||
 Sbjct: 24239422 gtactcatggtgagcatgct 24239441

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 63/72 (87%)
 Strand = Plus / Minus

Query: 5166 tatacattagaaatttttagtggttatattttagtgaaattaattattttataacataattga
 5225

Query: 4651 ttaatcatcaaacatgcatacctcacttcttcataattctagttggttggaactccaatca
4710 |||
Sbjct: 33357785 ttaatcatcaatcatgcagacttcacttcttcagag-ctagttggttggaactccagtca
33357843

Query: 5120 attaattggttacaaaatttattatctaaatttgcacataaataacattagaaat
5179

|||||
Sbjct: 32809112 attaattggttacaaaatttattgtgtaaacttatatgtgtattaaataacattaaaaat
32809171

Query: 5180 tttagtgttatatttagtgaaattaattattttataacataattgatgtattag 5233

|||||
Sbjct: 32809172 tttattggttatatatagtgacatt-atttttttttaataataattgggtctattag
32809224

Score = 67.9 bits (34), Expect = 3e-08
Identities = 111/134 (82%), Gaps = 2/134 (1%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattggttacaaaatttattatctaaatttgcacataaataacatta
5174

|||||
Sbjct: 40937202 aaaaaattaattattataaaaatttattatgttaaagttatatatacattaaataacatta
40937143

Query: 5175 gaaatttttagtggttatatttagtgaa-attaattattttataacataattgatgtattag
5233

|||||
Sbjct: 40937142 aaaattt-agggttatataaactaacattaattattttataataataattgacatattaa
40937084

Query: 5234 ttcagttgggttaga 5247

|| |
Sbjct: 40937083 tttaattgggttaga 40937070

Score = 67.9 bits (34), Expect = 3e-08
Identities = 34/34 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacat 1676

|||||
Sbjct: 41424297 aacgccttatcccactaggtggggtcggctacat 41424264

Score = 67.9 bits (34), Expect = 3e-08
Identities = 73/86 (84%)
Strand = Plus / Plus

Query: 5239 ttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcat
5298
||||| ||||| ||| ||||| | ||| | ||| | |||||
Sbjct: 42138781 ttggttagagtgttatgttgataacttgaaagtcatatgttcgaatcttgcatggatcat
42138840

Query: 5299 taatttttaaattaatttgtaaaatat 5324
||||| ||||| |||||
Sbjct: 42138841 taattttaaatcaattttataaaatat 42138866

Score = 67.9 bits (34), Expect = 3e-08
Identities = 58/66 (87%)
Strand = Plus / Plus

Query: 5206 ttatttttataacataaattgatgtattagttcagttggttagagcattatgttaataatgt
5265
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42965746 ttatttttataacataaattgattttattagttcagttgattaaaatattttgttaataacat
42965805

Query: 5266 gaaagt 5271
|||||
Sbjct: 42965806 gaaagt 42965811

Score = 65.9 bits (33), Expect = 1e-07
Identities = 42/45 (93%)
Strand = Plus / Plus

Query: 4524 tttagatacctctttggaatacaagggactgatcaacacaagtta 4568
|||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 33357653 tttaaatacctctttggaatacaagggactcatcaaccaagtta 33357697

Score = 65.9 bits (33), Expect = 1e-07
Identities = 61/69 (88%), Gaps = 1/69 (1%)
Strand = Plus / Plus

Query: 448 tcagaaccagagtttgtaattcagcttgta-tcgtaccatctaatatcttagtcaaattt
506
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 33359234 tcagaacctgagtttgtaattcagtttgtaatttgtaaccatctaactttttattcaaattt
33359293

```
Query: 6431      tcctttgtatttttattttatttgattattataatacata 6470
                |||||||
Sbjct: 19235898 tcctttgtattttcattttatttgattattaaaatacata 19235937
```

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 70/82 (85%), Gaps = 3/82 (3%)
 Strand = Plus / Plus

Query: 6882 gtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata---aacaaca
 6938
 ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 19538552 gtatacataggatgtatgtagttcatgtactcatggtgagcatgtttacaagcatcaaca
 19538611

Query: 6939 acatgagaacaaaacatgtgca 6960
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 19538612 acatgagaacaaggcatgtgca 19538633

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 59/68 (86%)
 Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataacatacattagaaatttttagtggtta
 5189
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 21970669 acaaaatttattaaataaatttacatgtacattaaatataaattagaaattttactatta
 21970610

Query: 5190 tattttagt 5197
 ||| |||
 Sbjct: 21970609 tatatagt 21970602

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 50/56 (89%)
 Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttatgaataaataaaaagggttttattcttaaatttgct 5069
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 26562075 ataattttaataaactatatttatgagtaaataaaaagatctcatttttaatttgct
 26562130

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 49/54 (90%), Gaps = 3/54 (5%)
 Strand = Plus / Plus

Query: 7 aagaagatcaagtgtgtgaaccaaagtgaaaataatgtttagaagccaacacag 60
 |||||
 Sbjct: 33362834 aagaagatcaagtgtgtgaaccaaagtg---ctaagtgtcagaagccaacacag
 33362884

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 38/40 (95%)
 Strand = Plus / Minus

Query: 6431 tcctttgtatTTTTATTTTATTtgattattataatacata 6470
 |||||
 Sbjct: 34268969 tcctttgtatTTTcattttatttgattattaaaatacata 34268930

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 92/112 (82%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTTtagtgTTtatTTTtagtgaaattaattTTTTataacataa
 5221
 |||||
 Sbjct: 36858514 taaatatacattaaaaaTTTtagtattTTtatataacggcattaattTTTTaaaacataa
 36858573

Query: 5222 ttgatgtattagttcagttggTTtagagcattatgttaataatgtgaaagtca 5273
 |||||
 Sbjct: 36858574 ttgatctattaactcagtcgattagaacgTTgtgttaataacgtaaaagtca 36858625

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 87/104 (83%), Gaps = 1/104 (0%)
 Strand = Plus / Plus

Query: 5145 taaatttgcatgcacaataaatatacattagaaatTTTtagtgTTtatTTTtagtgaaatta
 5204
 |||||
 Sbjct: 40763108 taaatttacatacacattaaatatacattagaaa-tttagagttatgtatagtaacatta
 40763166

Query: 5205 attattttataacataaTTgatgtattagttcagttggTTtagag 5248
 |||||
 Sbjct: 40763167 tttattttgtaatataaTTggTtcattaactcagttggTTtagag 40763210

Score = 63.9 bits (32), Expect = 4e-07
Identities = 71/84 (84%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataa
5221
 ||||| ||| ||| ||||||||||| ||||||| || | |||||||||||||||||||||
Sbjct: 41714491 taaatTTactTTTataaaatTTtagtattatatataacaacattaattatTTTataacataa
41714432

Query: 5222 ttgatgtattagttcagttggTta 5245
 ||| | |||||| ||| |||||||
Sbjct: 41714431 ttggtctattagctcaattggTta 41714408

Score = 63.9 bits (32), Expect = 4e-07
Identities = 89/108 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgTtacaaaatTTtattatctaaatTTgcatgcacaataaatatacattaga
5176
 ||||||||||| | | ||||||||||||||| ||||||| ||| | || ||||||||||| |
Sbjct: 43606218 aaaattaattatcataaaaatTTtattatTTaaatTTacatccgcattaaatatacatataa
43606159

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattg 5224
 ||||||| | |||||| || | | |||| ||||||||||| |||||||
Sbjct: 43606158 aatTTtattattatatataataacattatTTtattTTTataatataattg 43606111

Score = 62.0 bits (31), Expect = 2e-06
Identities = 52/59 (88%)
Strand = Plus / Plus

Query: 7308 gccaccatcccatgCGagagTccactTTTctTgtggaatcttCctaagctaattaattg
7366
 |||| ||||||||||| ||||||| ||||||||||||||||||| || ||| |||||||||||
Sbjct: 19237742 gccatcatcccatgcaagagTccatTTTctTgtggaatctagctgagccaattaattg
19237800

Score = 62.0 bits (31), Expect = 2e-06
Identities = 64/75 (85%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5175
||||| ||||| | |||||||||||||||||||| || | | |||||||||||||
Sbjct: 23598094 aaaaaataattatcacaaaatttattatctaaatttagatacgtattgaatatacatag
23598035

Query: 5176 aaatttttagtggtat 5190
||||||||| ||||
Sbjct: 23598034 aaatttttagtattat 23598020

Score = 62.0 bits (31), Expect = 2e-06
Identities = 64/75 (85%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737
||||||||||||| ||||| |||||||| || ||||||| |||||||||||||||||
Sbjct: 32581590 atgcgacacatgaaacattgctttggttgacccgattctcagatatccattttggtgtgtg
32581531

Query: 6738 atacgagaggagaca 6752
||| ||| |||||||
Sbjct: 32581530 atatgagtggagaca 32581516

Score = 62.0 bits (31), Expect = 2e-06
Identities = 40/43 (93%)
Strand = Plus / Plus

Query: 4524 tttagatacctctttggaatacaagggactgatcaacacaagt 4566
||||| |||||||||||||||||||||||||||| ||||| |||||
Sbjct: 33343142 tttaaatacctctttggaatacaagggactcatcaaccaagt 33343184

Score = 62.0 bits (31), Expect = 2e-06
Identities = 88/107 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5176
||||||||||| | ||||||||||||||| ||||||| ||| | ||||||||| |||||
Sbjct: 33637807 aaaattaattatcacaaaatttattatgtaaatttatatgtgaattaaatataatataa
33637866

Score = 62.0 bits (31), Expect = 2e-06
Identities = 34/35 (97%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaattt 5151
 |||||
Sbjct: 45959593 aaaattaattggttacaaaatttattatttaaattt 45959627

Score = 62.0 bits (31), Expect = 2e-06
Identities = 64/75 (85%)
Strand = Plus / Plus

Query: 5162 taaataacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 ||||| ||| ||| ||||| ||||| || | ||||| ||||| |||||
Sbjct: 46256189 taaataacattagaaatttttagtggttatataacaatattaattatttttaacataa
46256248

Query: 5222 ttgatgtattagttc 5236
 ||| |||||
Sbjct: 46256249 ttggtctattagttc 46256263

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 7308 gccaccatcccatgagagagtcacttttcttggtggaatctt 7349
 ||||| ||| ||||| ||||| |||||
Sbjct: 24239840 gccaccatccaatgtgagagtcacttttcttggtggaatctt 24239881

Score = 60.0 bits (30), Expect = 7e-06
Identities = 65/76 (85%), Gaps = 3/76 (3%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176
 ||||| ||||| ||| ||| ||| ||| |||
Sbjct: 31352062 aaaattaattgtcacaaaatttatt---taaattacatacgtattaaatataatataa
31352006

Query: 5177 aatttttagtggttatat 5192

|||||
Sbjct: 31352005 aatttttagtggttatat 31351990

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 757 ttgttttgtgactgaattgtggcaatgtaacacctggacttt 798
|||||
Sbjct: 33363798 ttgttttgtgactgaattgtggcaatataacggctggacttt 33363839

Score = 58.0 bits (29), Expect = 3e-05
Identities = 29/29 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggc 1671
|||||
Sbjct: 2858885 aacgccttatcccactaggtggggtcggc 2858913

Score = 58.0 bits (29), Expect = 3e-05
Identities = 50/57 (87%)
Strand = Plus / Minus

Query: 5041 aaataaaagggtttttattcttaaatttgcttgagccctctcaagtccttgagccgccc
5097
||||| || | |||||
Sbjct: 17312000 aaataaaagtctcattcttaaatttgctttaggtctctcaagtccttgagctgccc
17311944

Score = 58.0 bits (29), Expect = 3e-05
Identities = 56/65 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| |||| | |||||
Sbjct: 23028729 aaaatgaattatcacaaaatttattatttaaatttacatgtgcattgaatatacattaga
23028788

Query: 5177 aattt 5181

|||||
Sbjct: 23028789 aattt 23028793

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
||||||| ||||||| ||||||||| |||||||||
Sbjct: 24742445 gccttatcctactaggtgaggtcggctacatggatca 24742481

Score = 58.0 bits (29), Expect = 3e-05
Identities = 44/49 (89%)
Strand = Plus / Plus

Query: 563 gaatacaattggcaaattgggcacttcaactataattagtgattgattt 611
||||||| ||||||| |||| ||| ||||||||| |||||||
Sbjct: 33344315 gaatacaattgataaatgggcacgtcaattatagttagtgattgattt 33344363

Score = 58.0 bits (29), Expect = 3e-05
Identities = 41/45 (91%)
Strand = Plus / Plus

Query: 4524 tttagatacctctttggaatacaagggactgatcaacacaagtta 4568
|||| ||||||||| ||||||||| ||||||| |||||||
Sbjct: 33347790 tttaaatacctctttgaaatacaagggaatgatcaaccaagtta 33347834

Score = 58.0 bits (29), Expect = 3e-05
Identities = 38/41 (92%)
Strand = Plus / Plus

Query: 757 ttgttttgtgactgaattgtggcaatgtaacacctggactt 797
||||||| ||||||||| ||||||||| |||| | |||||||
Sbjct: 33359460 ttgttttgtgactgaattgtggcaatataacgcgtggactt 33359500

Score = 58.0 bits (29), Expect = 3e-05
Identities = 50/57 (87%)
Strand = Plus / Plus

Query: 283 tcatatcagctgagttgcagacttagctgctagcatttcacgttgtgaatgcaagag 339
 ||||| ||||| ||||| ||| | ||| | ||||| |||||
Sbjct: 33363218 tcatatcagttgagttgcagacttggctgccatcatatctcgttgtgaatgaaagag
33363274

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||||| ||||| |||||
Sbjct: 33449449 gccttatcccactaggtgaggtcggctacatgaatca 33449485

Score = 58.0 bits (29), Expect = 3e-05
Identities = 50/57 (87%)
Strand = Plus / Plus

Query: 5282 attcttacttggatcattaattttaaattaatttgtaaaatatatttttgaaaaaaaa
5338
 |||| |||| ||| ||||| ||||| ||| | ||||| |||||
Sbjct: 45394685 attcctacttagattattaattttaaattaatccgaaaaatatattttttaaaaaaa
45394741

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 6431 tcctttgtatttttattttatttgattattataataacata 6470
 ||||| ||||| ||||| ||||| |||||
Sbjct: 25839416 tccttttatattttcattttatttgattattataaataacata 25839455

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 7309 ccaccatcccatgcgagagtcacttttcttggtggaatct 7348
 ||||| ||||| ||||| |||||
Sbjct: 25840263 ccaccatcccatgtgagagtcatttttcttggtggaatct 25840302

Score = 56.0 bits (28), Expect = 1e-04
Identities = 44/48 (91%), Gaps = 1/48 (2%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaa 4804
 ||||| |||||||||||||||| ||||||| || |||||||||||||
Sbjct: 26561993 taactattaatctttttattggtaccgtaagtaacaattaataagtaa 26562040

Score = 56.0 bits (28), Expect = 1e-04
Identities = 117/146 (80%), Gaps = 3/146 (2%)
Strand = Plus / Minus

Query: 6872 acttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata
6931
 ||||| || ||||||||| ||||||||||||| | ||||||| ||||||||||||| |
Sbjct: 32581396 actttccaacgtatacacgggatgtatgtagtttgtgtactcatgatgagcatgcttaca
32581337

Query: 6932 ---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
6988
 ||||||| ||||||| || ||||||||| || | ||||| |||| ||||| |
Sbjct: 32581336 agtaacaacaatatgagaataaggcatgtgcaacttctagaattttccacaatcacatca
32581277

Query: 6989 cctttcatctagcttgaccatgaaat 7014
 ||||| || ||||||||| |||||
Sbjct: 32581276 ccttttatgtagcttgaccgtgaaat 32581251

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 4 ctgaagaagatcaagtgtgtgaaccaaagtgaaaat 39
 ||||| |||||||||||||||| ||||||| |||||
Sbjct: 33358592 ctgaacaagatcaagtgtgtgaaccaaagtcaaaaat 33358627

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 1647 ccttatccactaggtggggtcggctacatggatca 1682
||||| ||||||| ||||||| |||||||
Sbjct: 39738440 ccttatctcactaggtgaggtcggctacatggatca 39738475

Score = 56.0 bits (28), Expect = 1e-04
Identities = 55/64 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||| ||||||| | ||||||| ||||||| ||| || ||||||| ||| |
Sbjct: 40198877 aaaattaattgtcataaaaatttattatgtaaatttacatgtgcattaaatatatataaa
40198936

Query: 5177 aatt 5180
|||
Sbjct: 40198937 aatt 40198940

Score = 56.0 bits (28), Expect = 1e-04
Identities = 80/97 (82%), Gaps = 4/97 (4%)
Strand = Plus / Minus

Query: 5256 ttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaattaattt
5315
||||| ||||||| | | ||||||| || | || || ||||||| |||||||
Sbjct: 41966312 ttaataacgtgaaagtgatagattcaatttttgcacgaattattaatttttaaattaatta
41966253

Query: 5316 gtaaaatatatttttgaaaaaaaaattataaaaaaat 5352
||||| |||||| | ||||||| |||||||
Sbjct: 41966252 gtaaaacatatattt----aaaaaaaaattataaaaaaat 41966220

Score = 56.0 bits (28), Expect = 1e-04
Identities = 31/32 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
||||| ||||||| ||||||| ||||||| |||
Sbjct: 42359345 aaaattaattgttacaaaatttattatataaa 42359376

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatattttt 5330
 |||||
Sbjct: 43204604 tcattaatttttaaattattttataaaaatatatattttt 43204639

Score = 56.0 bits (28), Expect = 1e-04
Identities = 31/32 (96%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 |||||
Sbjct: 46256154 aaaattaattgttacaaaatttattatgtaa 46256123

Score = 54.0 bits (27), Expect = 4e-04
Identities = 45/51 (88%)
Strand = Plus / Plus

Query: 7426 cagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataa 7476
 |||||
Sbjct: 19377964 cagtaatacaacaatgaaaaacacacatgatgactacaacttattaaataa 19378014

Score = 54.0 bits (27), Expect = 4e-04
Identities = 75/90 (83%), Gaps = 2/90 (2%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataataca--acaaaaatttttaaatacaaaacaatatggcat
6637
 |||||
Sbjct: 32581712 aaaatattttaaatttgaattaatatagaacaacattttacaaatataaacaatatgacat
32581653

Query: 6638 aaaattaatggttggtggcctgagcctacac 6667
 |||||
Sbjct: 32581652 acattcaacggttggtggcctgagcctacac 32581623

Score = 54.0 bits (27), Expect = 4e-04

Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682
 ||||| |||||
Sbjct: 32942721 cttatcccactaggtgaagtcggctacatggatca 32942687

Score = 54.0 bits (27), Expect = 4e-04
Identities = 96/119 (80%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataacataacattaga
5176
 ||||| ||||| || | ||||| |||||
Sbjct: 36065553 aaaattaattgtaataaaaatttattatttaaatttatatatattttaaatatatatataaa
36065612

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 || |||| | ||||| || | | |||| | ||||| || |||||
Sbjct: 36065613 aaatttaattatatataataatattattttattttataataataattaatctattagtt
36065671

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 ||||| || | |||||
Sbjct: 40142009 aaaattaattattaaaaaatttattatctaaattt 40142043

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 ||||| ||||| |||||
Sbjct: 42965688 aaaattaattgctacaaaatttattatgtaaattt 42965722

Score = 54.0 bits (27), Expect = 4e-04

Identities = 39/43 (90%)
Strand = Plus / Plus

Query: 1640 acaaacgccttatcccactaggtggggctcggctacatggatca 1682
 ||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 46508831 acaaaagccttatctcactaggtgaagtcggctacatggatca 46508873

Score = 52.0 bits (26), Expect = 0.002
Identities = 38/42 (90%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5338
 ||||||| ||||||| | ||||| ||||||| |||||||
Sbjct: 11583091 attaatttttaaattaactcgtaaaattatatatttttaaaaaaaaa 11583050

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatattttt 5330
 ||||||| ||||||| ||||||| |||||||
Sbjct: 12645063 attaatttttaaattaattttataaaaacatatattttt 12645096

Score = 52.0 bits (26), Expect = 0.002
Identities = 38/42 (90%)
Strand = Plus / Plus

Query: 5298 ttaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5339
 ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 21972141 ttaatttttaaattaaaacgtaaaattatatatttttgaaaaaaaa 21972182

Score = 52.0 bits (26), Expect = 0.002
Identities = 53/62 (85%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattagttcagttgggttagagcattatgttaat
5260
 ||||| ||||||| ||||||| ||||||| || ||| ||||||| ||||||| || |||
Sbjct: 23028809 attattttattttataacataattgggctagtagctcagttgggttagagcgttgtgcta
23028868

Query: 5261 aa 5262
 ||
Sbjct: 23028869 aa 23028870

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Plus

Query: 338 aggaaaaatacatagaaaaagaggaacaa 367
 ||||||| |||||||
Sbjct: 33359137 aggaaaaatacttagaaaaagaggaacaa 33359166

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 5290 ttggatcattaatttttaaattaatttgtaa 5319
 ||||||| |||||||
Sbjct: 34223813 ttggatcattaatttttaaattaattcgtaa 34223784

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 1362 tcttgactactgcatgggcctggcgccaccctac 1395
 ||||||| |||||||
Sbjct: 38883185 tcttgactattgcatgggcctggtgcaccctac 38883218

Score = 52.0 bits (26), Expect = 0.002
Identities = 42/46 (91%), Gaps = 1/46 (2%)
Strand = Plus / Plus

Query: 5294 atcattaatttttaaattaatttgtaaaatatattttgaaaaaaaaa 5339
 ||||||| ||||| |||||||
Sbjct: 40142151 atcattaattt-aaatttatttgtaaaatatattttaaaaaaaaa 40142195

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacatgga 1679
 |||||
Sbjct: 41523393 gccttatcccactaggtgaggttggtacatgga 41523426

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacat 1676
 |||||
Sbjct: 44661964 aacgccttatcccattaggtggggctcggttacat 44661931

Score = 52.0 bits (26), Expect = 0.002
Identities = 41/46 (89%)
Strand = Plus / Minus

Query: 5294 atcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5339
 |||||
Sbjct: 45554481 atcattaatttttaaattaagttgtaaaacatttttttttaaaaaa 45554436

Score = 52.0 bits (26), Expect = 0.002
Identities = 42/46 (91%), Gaps = 1/46 (2%)
Strand = Plus / Plus

Query: 5202 ttaattattttataacataattgatgtattagttcagttgggttaga 5247
 |||||
Sbjct: 45959705 ttaattatttt-taatataattgatctattagctcagttgggttaga 45959749

Score = 50.1 bits (25), Expect = 0.007
Identities = 56/65 (86%), Gaps = 1/65 (1%)
Strand = Plus / Minus

Query: 63 gacaattttgatttctgggttaatgggtgtattaaaaatatcagaaaactttcaaatatct
122
 |||||

Sbjct: 942192 gacaattttgagttttggtttatgggattcttaaaa-tatcagaaaactttcaattatct
942134

Query: 123 cgagc 127
|||
Sbjct: 942133 tgagc 942129

Score = 50.1 bits (25), Expect = 0.007
Identities = 37/41 (90%)
Strand = Plus / Plus

Query: 5297 attaatTTTaaattaatttgtaaaatatatttttgaaaaaa 5337
||||||| ||||| || |||||
Sbjct: 1750710 attaatTTTaaattaattcataaaacatgtttttgaaaaaa 1750750

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 5325 atTTTtgaaaaaaaaaattataaaaa 5349
||||||| ||||| |||||
Sbjct: 12518875 atTTTtgaaaaaaaaaattataaaaa 12518851

Score = 50.1 bits (25), Expect = 0.007
Identities = 41/45 (91%), Gaps = 1/45 (2%)
Strand = Plus / Minus

Query: 5296 catTaattTTTaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
||||||| ||||| |||||
Sbjct: 23298007 catTaattTTTaaattaatcgtaaaattata-ttttgaaaaaaaaa 23297964

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Plus

Query: 7265 tttcttgagtaccaaattaattaactcag 7293
||||||| |||||
Sbjct: 25840202 tttcttgagtaccaaattaattgactcag 25840230

Score = 50.1 bits (25), Expect = 0.007
Identities = 48/55 (87%), Gaps = 3/55 (5%)
Strand = Plus / Plus

Query: 5 tgaagaagatcaagtgtgtgaaccaaagtgaaaataatgtttagaagccaacaca 59
|||||
Sbjct: 33348059 tgaagaagatcaagtttgtaaaccaaagt---aaaaatgttcagaagccaacaca
33348110

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Plus

Query: 4524 tttagatacctctttggaatacaagggactgatcaacacaagtta 4568
||||
Sbjct: 33361822 tttaaatacctctctgcaatacaagggactcatcaaccaagtta 33361866

Score = 50.1 bits (25), Expect = 0.007
Identities = 55/65 (84%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattag
5175
|||||
Sbjct: 33462360 aaaaattaattatcgtaaaatttattatcatgttaaatttacatgtgcattaaatatacattag
33462301

Query: 5176 aaatt 5180
||||
Sbjct: 33462300 aaatt 33462296

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Minus

Query: 5282 attcttacttggatcattaattttaaattaatt 5314
|||||
Sbjct: 37972389 attcttgcttggaccattaattttaaattaatt 37972357

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 5187 ttatatatttagtgaaattaattatattttataacataatt 5223
 ||||| || ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40142068 ttatatataatgatattaattatattttataacataatt 40142104

Score = 50.1 bits (25), Expect = 0.007
Identities = 43/49 (87%)
Strand = Plus / Plus

Query: 5164 aatatacattagaaatttttagtggttatatttagtgaaattaattatattt 5212
 ||||| ||||| ||||| ||||| | ||||| || ||| ||||| |||||
Sbjct: 41149752 aatattcattagaaattttattattatatataatgacattaattatattt 41149800

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 5294 atcattaatttttaaattaatttgtaaaatatattttt 5330
 ||||| ||||| ||||| ||||| || ||||| ||||| |||||
Sbjct: 43204283 atcattaatttttaaattatttcataaaatatattttt 43204247

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 45934336 gccttatcccactaagtgaggttggctacatggatca 45934300

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 115006 aaaattaattgtcacaaaatttattatgtaa 115037

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5328 tttgaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 5534505 tttgaaaaaaaaattataaaaaaa 5534528

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggg 1666
 |||||
Sbjct: 11639172 aacgccttatcccactaggtgggg 11639195

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatatttaaatta 6547
 ||||| | |||||
Sbjct: 19235963 acaagtttaattgaactaaaatatttaaatta 19235994

Score = 48.1 bits (24), Expect = 0.026
Identities = 55/64 (85%), Gaps = 1/64 (1%)
Strand = Plus / Plus

Query: 68 ttttgatttctgggttaatgggtgtattaaaaatatcagaaaactttcaaatatctcgagc
127
 ||||| ||||| | | ||| ||||| || ||||| |||||
Sbjct: 33348140 ttttgatttctgggttatgggtatgatgaaa-tatcagaaaaccttgaaatatcttgagc
33348198

Query: 128 aggc 131
 |||
Sbjct: 33348199 aggc 33348202

Score = 48.1 bits (24), Expect = 0.026
Identities = 42/48 (87%)
Strand = Plus / Plus

Query: 514 ataagtatttaaagtgtgagtcctcttttatttaattagtttaaataatt 561
 ||||| |||||||||||||||| ||||| |||| |||||||| |||||
Sbjct: 33363505 ataattatttaaagtgtgagtcagttttactttaagtagtttaattaatt 33363552

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 683 ttggttgaagttattgatctcactggatccat 714
 |||||||||||||||||| ||||| |||||
Sbjct: 33363680 ttggttgaagttattgatgtcactgtatccat 33363711

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggtcggctacatggatca 1682
 ||||||| ||||| | ||||||||||||||||
Sbjct: 34144156 ccttatcctactaggagaggtcggctacatggatca 34144121

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaaatta 5343
 ||||||| ||||| ||||||||||||||||
Sbjct: 40141651 attaattcttaaaacatatatttttgaaaaaaaaatta 40141616

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 ||||||||| |||||||||||||||| |||||

Sbjct: 42359247 aaaattaattattacaaaatttattatgtaaa 42359216

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggcta 1673
|||||
Sbjct: 45199391 gccttatcccactaggtgaggtcggcta 45199364

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Plus

Query: 5291 tggatcattaatttttaaattaatttgtaaaatatatattttt 5330
|||||
Sbjct: 46256275 tggaccattaatttttaaattatttcataaaatatatattttt 46256314

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 5321 atatatttttgaaaaaaaaaattataaa 5347
|||||
Sbjct: 1643427 atatatttttgaaaaaaaaaattataaa 1643401

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaca 5570
|||||
Sbjct: 15451240 ttttttttaaaaaaaaaaaaaaca 15451218

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Score = 46.1 bits (23), Expect = 0.10

Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggg 1665
 ||||||||||||||||||||
Sbjct: 38998889 aacgccttatcccactaggtggg 38998867

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaac 5569
 ||||||||||||||||||||
Sbjct: 41202165 cttttttttaaaaaaaaaaaaaac 41202187

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaac 5569
 ||||||||||||||||||||
Sbjct: 43792533 cttttttttaaaaaaaaaaaaaac 43792555

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 44767803 actttttttttaaaaaaaaaaaaaa 44767781

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataatt 5223
 ||||||||||||||||||||
Sbjct: 45554590 attaattattttataacataatt 45554568

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 2571 tttaaatttgtaaataatatattt 2592
 |||||
Sbjct: 4191149 tttaaatttgtaaataatatattt 4191170

Score = 44.1 bits (22), Expect = 0.41
Identities = 40/46 (86%)
Strand = Plus / Plus

Query: 2679 atctctctcggtaacttatgaatcaaggttatcaacatacacgtga 2724
 |||||
Sbjct: 14883365 atctctctcggtaactcgtgaatccaagttaccacatacacgtga 14883410

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 7196 ctttggttgaacaatgcattacacct 7221
 ||||
Sbjct: 17144190 ctttggttgaacaatgcattacacct 17144165

Score = 44.1 bits (22), Expect = 0.41
Identities = 64/78 (82%)
Strand = Plus / Minus

Query: 6699 tttggtttacctgattccttgatatccattttggtgtgtatacgagaggagacatgacaa
6758
 |||||
Sbjct: 17144689 tttggttgacctagttctcggatatccatttcggtgtggatatgagtggagataggacga
17144630

Query: 6759 cctttagaatttcttttc 6776
 ||
Sbjct: 17144629 cccttagtacttcttttc 17144612

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 6341 ttaaattgaaaacaatattatatttttc 6366
 ||||| ||||||||||||||||
Sbjct: 20297212 ttaaatttaaaacaatattatatttttc 20297187

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttta 6285
 ||||||||||||||||
Sbjct: 25155081 cttttttttttgttttgtttta 25155102

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatattttaa 6545
 |||||||| |||||||||| ||||||||
Sbjct: 25839480 acaagttgaattgaactaaaacattttaa 25839509

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatattttaa 6545
 |||||||| |||||||||| ||||||||
Sbjct: 25839539 acaagttgaattgaactaaaacattttaa 25839510

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttta 5183
 ||||||||||||||||
Sbjct: 32937151 taaatatacattagaaatttta 32937130

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttta 6285
|||||
Sbjct: 34028276 cttttttttttgttttgtttta 34028297

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 6298 tttttatttttttgttattaattgtctatatatt 6331
|||||
Sbjct: 34269960 tttttatttttttctttttaattatctatatatt 34269927

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5307 aattaatttgtaaaatatattt 5328
|||||
Sbjct: 36032665 aattaatttgtaaaatatattt 36032686

Score = 44.1 bits (22), Expect = 0.41
Identities = 50/58 (86%), Gaps = 1/58 (1%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacat
5219
|||||
Sbjct: 38802370 taaatatacataa-aaattttaatattatatataataatattaattattttataacat
38802314

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatatttttgaaaaaaaaaat 5341
 ||||| ||| || |||||
Sbjct: 41559914 attaatttctaaaacataattttgaaaaaaaaaat 41559881

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 4891 tttttattttgttcctattcaattctaatt 4920
 ||||| || |||||
Sbjct: 41705021 tttttatttttttctattcaattctaatt 41705050

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 43523563 cttttttttaaaaaaaaaaaaaa 43523584

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgttttaaaattgttt 6294
 ||||| |||||
Sbjct: 45330916 tttttttttggtttactttttaaaattgttt 45330887

Score = 44.1 bits (22), Expect = 0.41
Identities = 43/50 (86%)
Strand = Plus / Plus

Query: 5290 ttggatcattaatttttaaattaatttgtaaaatatatattttgaaaaaaaa 5339
 ||| ||||| ||| ||| |||||
Sbjct: 46216693 ttgggtcattaatttttaaattaattcattataaatatttttcaaaaaaaaa 46216742

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)

Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaacaagt 5573
                ||||||| |||||||||||||||||
Sbjct: 46288759 tttttttttaaaaaaaaaaaaaacaagt 46288784
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 6301      ttattttttttgttattaatt 6321
                ||||||| |||||||||||||||||
Sbjct: 517986   ttattttttttgttattaatt 518006
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                ||||||| |||||||||||||||||
Sbjct: 834187   tttttttttaaaaaaaaaaaaaa 834167
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                ||||||| |||||||||||||||||
Sbjct: 1128653 tttttttttaaaaaaaaaaaaaa 1128673
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5544      gaactttttttttaaaaaaaaaa 5564
                ||||||| |||||||||||||||||
Sbjct: 2079838 gaactttttttttaaaaaaaaaa 2079858
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 4771006 ttttttttaaaaaaaaaaaaaa 4770986

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttt 6284
|||||||
Sbjct: 9304477 cttttttttttgttttgtttt 9304497

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 11822245 ttttttttaaaaaaaaaaaaaa 11822225

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6492 aattaaaaaatatatatttaa 6512
|||||||
Sbjct: 12509552 aattaaaaaatatatatttaa 12509532

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5999 aaaaagaaaaaagaaatgcat 6019
|||||||
Sbjct: 12534532 aaaaagaaaaaagaaatgcat 12534552

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 15202171 tttttttttaaaaaaaaaaaaaa 15202191

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 18587388 cttttttttaaaaaaaaaaaaaa 18587408

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 18775635 tttttttttaaaaaaaaaaaaaa 18775655

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 19172282 cttttttttaaaaaaaaaaaaaa 19172302

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 19494285 actttttttttaaaaaaaaaa 19494305

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4433 aatagttcaattttttttttt 4453
 |||||
Sbjct: 24038039 aatagttcaattttttttttt 24038019

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6267 ttttttttgttttgttttaa 6287
 |||||
Sbjct: 26295040 ttttttttgttttgttttaa 26295020

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5539 ttattgaacttttttttaaaaaa 5563
 |||||
Sbjct: 32203898 ttattgaacttttttctaaaaaa 32203874

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 32623684 ttttttttaaaaaaaaaa 32623704

Score = 42.1 bits (21), Expect = 1.6
Identities = 39/45 (86%)

Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggTTa 5245
 ||||| ||||| | ||||| ||||| |||||
Sbjct: 32937114 attaattatTTTtTTtaacataattaacttattaattcacttggTTa 32937070

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5546 actTTTTTTTTtaaaaaaaaaaaaa 5566
 ||||| ||||| |
Sbjct: 33286934 actTTTTTTTTtaaaaaaaaaaaaa 33286954

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 4083 gctgactggTTggcagtgctaattagtatgggCCaga 4119
 ||||| ||||| ||||| || |||||
Sbjct: 33346745 gctgactgattggCaatgctaattagtaaggaccaga 33346781

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 690 aagttattgatctcactggatccat 714
 ||||| ||||| |
Sbjct: 33352485 aagttattggtctcactggatccat 33352509

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 7182 cgacttctctcccccttTggttgaa 7206
 ||||| ||||| |
Sbjct: 33761238 cgacttctctcccacttTggttgaa 33761262

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 34765758 tttttttttaaaaaaaaaaaaaa 34765738

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 35273200 tttttttttaaaaaaaaaaaaaa 35273220

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 36263630 tttttttttaaaaaaaaaaaaaa 36263610

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5274 aaagttcaattcttacttggatcat 5298
 ||||| ||||||||||||||||
Sbjct: 36493582 aaagttaaattcttacttggatcat 36493558

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaat 5352
 ||||||||||||||||||
Sbjct: 37125570 aaaaaaaaaattataaaaaaat 37125550

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 40148746 tttttttttaaaaaaaaaaaaaa 40148726

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 41039754 tttttttttaaaaaaaaaaaaaaac 41039774

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6254 ttcttaattgctttttttttt 6274
 |||||
Sbjct: 42492642 ttcttaattgctttttttttt 42492662

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 43029041 cttttttttaaaaaaaaaaaaaa 43029061

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 43466983 tttttttttaaaaaaaaaaaaaa 43466963

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6284 taaaattgtttgtatttttattttt 6308
 ||||||| |||||
Sbjct: 44197533 taaaattgtttttatttttattttt 44197509

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaa 5565
 |||||||
Sbjct: 45739105 aacttttttttaaaaaaaaaaaaa 45739085

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaa 5320
 ||||||| |||||
Sbjct: 115096 attaatttttaaatgaatttgtaaa 115119

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 601935 tttttttttaaaaaaaaaaaaaa 601954

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

```
Query: 5549      ttttttttaaaaaaaaaaaaaacaag 5572
                ||||||| |||||||||||||||||
Sbjct: 863660 ttttttttaaaaaaaaaaaaaacaag 863637
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
                ||||||| |||||||||||||||||
Sbjct: 863660 ttttttttaaaaaaaaaaaaaa 863641
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
                ||||||| |||||||||||||||||
Sbjct: 869054 ttttttttaaaaaaaaaaaaaa 869035
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6491      aaattaaaaaatatatatattt 6510
                ||||||| |||||||||||||||||
Sbjct: 994660 aaattaaaaaatatatatattt 994641
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5566
                ||||||| |||||||||||||||||
Sbjct: 1065436 ctttttttttaaaaaaaaaaaaaa 1065417
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6059 taaaaaaaaaattaattattt 6078
 |||||||
Sbjct: 2079849 taaaaaaaaaattaattattt 2079868

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 2100151 ttttttttaaaaaaaaaaaaa 2100132

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 4790 ataattaataagtaataatttttt 4813
 ||||||| |||||||
Sbjct: 5495207 ataattaataattaataatttttt 5495230

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 6761676 ttttttttaaaaaaaaaaaaa 6761657

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2590 tttttttctttctaaacatg 2609
 |||||||
Sbjct: 9729070 tttttttctttctaaacatg 9729051

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 11822230 tttttttttaaaaaaaaaaaaaa 11822249

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 13927744 tttttttttaaaaaaaaaaaaaa 13927763

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 14306324 tttttttttaaaaaaaaaaaaaa 14306305

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 15609009 tttttttttaaaaaaaaaaaaaa 15608990

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 15608994 tttttttttaaaaaaaaaaaaaa 15609013

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 15911773 tttttttttaaaaaaaaaaaaaa 15911754

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6192 tttcaaaatgttcatttttt 6211
 |||||||
Sbjct: 16413112 tttcaaaatgttcatttttt 16413093

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5975 tggcatggacatggtggccg 5994
 |||||||
Sbjct: 16993057 tggcatggacatggtggccg 16993076

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 17067597 tttttttttaaaaaaaaaaaaaa 17067578

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
                |||||||
Sbjct: 17183420 ttttttttaaaaaaaaaaaaaa 17183439
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6955      tgtgcattttttgaaatttg 6974
                |||||||
Sbjct: 18497281 tgtgcattttttgaaatttg 18497300
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

```
Query: 1652      tcccactaggtggggtcggctacatgga 1679
                |||| ||||||| |||||||
Sbjct: 18628509 tccccctaggtgaggtcggctacatgga 18628536
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
                |||||||
Sbjct: 18902204 ttttttttaaaaaaaaaaaaaa 18902223
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5536      ttgttattgaactttttttt 5555
                |||||||
Sbjct: 18908627 ttgttattgaactttttttt 18908608
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 19212303 ttttttttaaaaaaaaaaaaaa 19212284

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5552 ttttaaaaaaaaaaaaaaaca 5571
 ||||||||||||||||||
Sbjct: 19495207 ttttaaaaaaaaaaaaaaaca 19495188

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 7216 acacctagtatagggttgattttaccaac 7243
 ||||||| ||| ||||||||||||||
Sbjct: 21750036 acacctactatatgttgattttaccaac 21750063

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 22531736 ttttttttttgttttgtttt 22531717

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||| |||||||
Sbjct: 23084824 ttttttttaaaaaaagaaaaaca 23084847

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 25230043 tttttttttaaaaaaaaaaaaaa 25230062

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6268 tttttttgttttgttttaaa 6287
 |||||
Sbjct: 26210362 tttttttgttttgttttaaa 26210381

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5553 tttaaaaaaaaaaaaacaag 5572
 |||||
Sbjct: 27727152 tttaaaaaaaaaaaaacaag 27727171

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 6481 aacttaattgaaattaaaaaatatatatttaa 6512
 ||||| ||| |||||
Sbjct: 27849231 aactttatttaaattaaaaaatgtatatatttaa 27849262

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 29264441 tttttttttaaaaaaaaaaaaaa 29264460

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 32149042 tttttttttaaaaaaaaaaaaaa 32149023

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 7133 gccttgtttaataacttttgtataaactt 7160
 ||||| ||| |||||
Sbjct: 32581134 gccttgcttagtacttttgtataaactt 32581107

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 3884 tgattttgtaaaaatgattttttt 3907
 ||||||| |||||
Sbjct: 33345312 tgattttgtaaaaatgatattttt 33345335

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaa 5339
 ||||||| || |||||
Sbjct: 33462561 attaatttgtaaaacattttttttaaaaaaa 33462592

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Plus

```
Query: 6288      attgtttgtatttttatttttttt 6311
                ||||||| |||||||
Sbjct: 33583303 attgtttgtattttaatttttttt 33583326
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5545      aacttttttttaaaaaaaaaaaaaa 5568
                ||||||| ||||||| |||||||
Sbjct: 33966772 aacttttattttaaaaaaaaaaaaaa 33966749
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaaaca 5571
                ||||||| ||||||| |||||||
Sbjct: 34301000 tttttttttaaaaaaaaaaataaaca 34301023
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5545      aacttttttttaaaaaaaaaaaaaa 5568
                |||| | ||||||| |||||||
Sbjct: 34416492 aactcttttttaaaaaaaaaaaaaa 34416515
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547      cttttttttaaaaaaaaaaaaaa 5566
                ||||||| ||||||| |||||||
Sbjct: 34555421 cttttttttaaaaaaaaaaaaaa 34555402
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6441 ttttattttatttgattatt 6460
 |||||
Sbjct: 34659870 ttttattttatttgattatt 34659889

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 34749697 cttttttttaaaaaaaaaa 34749678

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatg 1677
 ||||| ||||| ||| |||||
Sbjct: 34805118 gccttatcccacaaggtgaggttggtacatg 34805149

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6296 tatttttattttttttgtta 6315
 |||||
Sbjct: 34866431 tatttttattttttttgtta 34866450

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2581 aaataatattttttttcttt 2600
 |||||
Sbjct: 35202218 aaataatattttttttcttt 35202237

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttccttttatttttatttt 4900
 |||||
Sbjct: 35328207 ttttccttttatttttatttt 35328188

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5556 aaaaaaaaaaaaaacaagtaa 5575
 |||||
Sbjct: 35410585 aaaaaaaaaaaaaacaagtaa 35410604

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtg 1663
 ||||| |||||
Sbjct: 35779200 acaaatgccttatcccactaggtg 35779177

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 36079761 ttttttttaaaaaaaaaaaaa 36079780

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaattt 5315
 |||||
Sbjct: 36626682 cattaatttttaaattaattt 36626663

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 36718139 ttttttttaaaaaaaaaaaaaa 36718158

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6269 ttttttgttttgttttaaaa 6288
 |||||
Sbjct: 37007248 ttttttgttttgttttaaaa 37007267

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5320 aatatatttttgaaaaaaaaatta 5343
 |||||
Sbjct: 37530232 aatatatttttgaaaaataaatta 37530255

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 37613907 ttttttttaaaaaaaaaaaaaa 37613888

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)

Strand = Plus / Minus

```
Query: 5290      ttggatcattaatttttaaattaatttgtaaaatatatattt 5329
                |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 37908187 ttgggtcattattttttaaattaattggtaataaatatattt 37908148
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 6265      ttttttttttgttttgttttaaaa 6288
                ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38329636 ttttttttttgttttggttttaaaa 38329613
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38393309 tttttttttaaaaaaaaaaaaaa 38393328
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaaaca 5571
                ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38430512 tttttttttaaaaaaaaaaataaaca 38430489
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5328      tttgaaaaaaaaattataaa 5347
                ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39018797 tttgaaaaaaaaattataaa 39018816
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 39037518 ctttttttttaaaaaaaaaa 39037537

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattt 6510
|||||||
Sbjct: 39139236 aaattaaaaaatatatattt 39139255

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5568
||||||| |||||||
Sbjct: 39216323 aacttttttttaaaaaaaaaa 39216300

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatca 1682
||||||| ||| || | || |||||||
Sbjct: 39243603 aacgccttatcctactaagtgagatcagctacatggatca 39243642

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
|||||||
Sbjct: 39703869 ttttttttttgttttgtttt 39703888

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaa 5564
 |||||
Sbjct: 40377950 aactttttttttaaaaaaaaaa 40377931

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4430 gataatagttcaattttttt 4449
 |||||
Sbjct: 40700291 gataatagttcaattttttt 40700272

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 40789695 cttttttttttaaaaaaaaaa 40789676

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6493 attaaaaaatatatatttaa 6512
 |||||
Sbjct: 40955512 attaaaaaatatatatttaa 40955531

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 41016225 tttttttttaaaaaaaaaaaaaa 41016244

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5311 aatttgtaaaatatattttt 5330
 | | | | | | | | | | | | | | | |
Sbjct: 41478541 aatttgtaaaatatattttt 41478560

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 41741370 tttttttttaaaaaaaaaaaaaa 41741389

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 41830684 tttttttttaaaaaaaaaaaaaa 41830665

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 42466323 tttttttttaaaaaaaaaaaaaa 42466304

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)

Strand = Plus / Minus

```
Query: 5117      aaaattaattggtacaaaatttattatctaaa 5148
              ||||| ||| ||||| ||||| |||||
Sbjct: 42631439 aaaattaattattataaaaatttattatataaa 42631408
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6265      ttttttttttgttttgtttt 6284
              ||||| ||||| ||||| |||||
Sbjct: 42929073 ttttttttttgttttgtttt 42929092
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5162      taaatatacattagaaatttttagt 5185
              ||||| ||||| ||||| |||||
Sbjct: 43204414 taaatatacattagaaatttttagt 43204391
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
              ||||| ||||| ||||| |||||
Sbjct: 43284574 tttttttttaaaaaaaaaaaaaa 43284555
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 2584      taatatatttttttctttcta 2603
              ||||| ||||| ||||| |||||
Sbjct: 43358091 taatatatttttttctttcta 43358072
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 43678926 ttttttttaaaaaaaaaaaaaa 43678907

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaattaa 6072
 ||||||||||||||||||
Sbjct: 43732871 aaataataaaaaaaaaattaa 43732852

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6492 aattaaaaaatatatattta 6511
 ||||||||||||||||||
Sbjct: 43746204 aattaaaaaatatatattta 43746223

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 43849554 ttttttttaaaaaaaaaaaaaa 43849573

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 45214692 ctttttttttaaaaaaaaaaaaa 45214673

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5552 ttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 45910797 ttttaaaaaaaaaaaaaaaca 45910816

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatTTTT 5330
 ||||| || |||||
Sbjct: 46256063 tcattaatttttaaattatttcataaaacatatTTTT 46256028

>[gb|CM000852.1](#)| Glycine max chromosome 19, whole genome shotgun sequence
Length = 50589441

Score = 1600 bits (807), Expect = 0.0
Identities = 813/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 21617439 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
21617498

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||
Sbjct: 21617499 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
21617558

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 |||||
Sbjct: 21617559 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
21617618

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 21617619 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
21617678

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 21617679 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
21617738

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 21617739 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
21617798

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 21617799 actttattctcatgttggtctcttgaccaccaacattctgttccgtacaaaatcgccagt
21617858

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 21617859 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
21617918

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 21617919 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
21617978

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 21617979 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
21618038

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaacta
2302

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Sbjct: 21618039 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaacta
21618098

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 21618099 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
21618158

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 21618159 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
21618218

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 21618219 tctgcaaaaagcatgcatctcggcgctatctcttg 21618253

Score = 1600 bits (807), Expect = 0.0
Identities = 813/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 26780425 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
26780484

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 26780485 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
26780544

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 26780545 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
26780604

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 26780605 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
26780664

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 26780665 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
26780724

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 26780725 attttatcctgtcgagtccttaccacacatccaccgtaacatcctcatctccgctacacct
26780784

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 26780785 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
26780844

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 26780845 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
26780904

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 26780905 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
26780964

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 26780965 tcaatttccccatcatcctgtattacagaccgaagatatattaaaccgtgtgacttgaggg
26781024

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 26781025 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
26781084

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 26781085 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
26781144

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 26781145 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
26781204

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 26781205 tctgcaaaaagcatgcatctcggcgctatctcttg 26781239

Score = 1592 bits (803), Expect = 0.0
Identities = 813/815 (99%), Gaps = 1/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 28800744 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
28800685

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 28800684 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
28800625

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 28800624 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
28800565

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 28800564 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
28800505

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 28800504 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
28800445

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 28800444 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
28800385

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 28800384 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgctggt
28800325

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 28800324 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
28800265

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 28800264 acccccgatgc-tttctccatttcatccatcctgcttgaatgcgatgattcacatccct
28800206

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 28800205 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
28800146

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 28800145 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
28800086

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 28800085 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
28800026

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 28800025 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
28799966

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 28799965 tctgcaaaaagcatgcatctcggcgctatctcttg 28799931

Sbjct: 3469646 aacgccttatcccactaggtggggctcggctacatggatcaacttcgccataatgttcta
3469705

Sbjct: 3469706 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
3469765

Sbjct: 3469766 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
3469825

Sbjct: 3469826 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
3469885 ctcctcactacagaatctaccggtcttctctctacatgcccaaaccacctaagtctattt

Sbjct: 3469886 | tccaccatc|tctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
3469945

Sbjct: 3469946 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
3470005

Sbjct: 3470006 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
3470065

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 3470125

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccctt
 2182

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 Sbjct: 3470126 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccctt
 3470185

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 3470186 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 3470245

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 3470246 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 3470305

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 3470306 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 3470365

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 3470366 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
 3470425

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 3470426 tctgcaaaaagcatgcatctcggcgctatctcttg 3470460

Score = 1576 bits (795), Expect = 0.0
 Identities = 810/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 12496307 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 12496366

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 12496367 tcaagtaccatacttctatccaaatcattaagtttgagatcctttttgataacctctctt
12496426

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 12496427 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
12496486

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 12496487 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
12496546

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 12496547 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
12496606

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 12496607 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12496666

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 12496667 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
12496726

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 12496727 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
12496786

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 12496787 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
12496846

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 12496847 tcaatttcctcatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
12496906

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 12496907 ataatatggtctcctattttcacctctgagttagaaactctccttcttttgttgaactta
12496966

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 12496967 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
12497026

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 12497027 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
12497086

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 12497087 tctgcaaaaagcatgcatctcggcgctatctcttg 12497121

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 40153575 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
40153516

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 40153515 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
40153456

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 40153455 atagtctttttgggtcttctctgctcgaatagtttgtcttctctccatctggtctact
40153396

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 40153395 ctctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagtctattt
40153336

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 40153335 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
40153276

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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40153216

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 40153215 actttattctcatgttggtctcttgaccgccaacactctgttccgtacaaaatcgccggt
40153156

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 40153155 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40153096

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 40153095 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
40153036

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 40153035 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
40152976

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 40152975 ataatatgggtctcctatatttcacctctgagttagaaaccctccttcttttgttgaactta
 40152916

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 40152915 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 40152856

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 40152855 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 40152796

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 40152795 tctgcaaaaagcatgcatctcggcgctatctcttg 40152761

Score = 1576 bits (795), Expect = 0.0
 Identities = 810/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 40500268 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 40500209

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 40500208 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 40500149

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
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 Sbjct: 40500148 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
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Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

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 Sbjct: 40500088 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 40500029

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 40500028 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
40499969

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 40499968 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
40499909

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 40499908 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
40499849

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 40499848 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40499789

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 40499788 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
40499729

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 40499728 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
40499669

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 40499668 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
40499609

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 40499608 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
40499549

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 40499548 ctccaagtttccaacctctcattcaattcctctctcgactctccaaggaggactatgtca
40499489

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 40499488 tctgcaaaaagcatgcatctcggcgctatctcttg 40499454

Score = 1574 bits (794), Expect = 0.0
Identities = 809/814 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 47516726 aacgccttatccactaggtggggtcgactacatggatcaacttccgccataatgttcta
47516785

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 47516786 tcaagtaccatacttctaaccaaaccattaatttcgagatcctttttgataacctctctt
47516845

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 47516846 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
47516905

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
1882

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Sbjct: 47516906 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
47516965

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 47516966 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
47517025

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||

Sbjct: 47517026 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
47517085

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 47517086 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
47517145

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 47517146 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
47517205

Query: 2123 acccccgatgcttttctccatttcattcatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 47517206 acccccgatgcttttctccatttcattcatcctgcttgaatgcgatgattcacatccct
47517265

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 47517266 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgagga
47517325

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacta
2302

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Sbjct: 47517326 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacta
47517385

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 47517386 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
47517445

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 47517446 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
47517505

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctctt 2456
|||||

Sbjct: 47517506 tctgcaaaaagcatgcatctcggcgctatctctt 47517539

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 39255825 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
39255884

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 39255885 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
39255944

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 39255945 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
39256004

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
1882
|||||
Sbjct: 39256005 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
39256064

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
|||||
Sbjct: 39256065 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
39256124

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 39256125 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39256184

Query: 2003 actttattctcatggtgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 39256185 actttattctcatggtgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
39256244

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 39256245 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
39256304

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 39256305 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccg
39256364

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 39256365 tcaatttcccatcatcctgtattacagaccaagatatattaaatcgtgtgacttgaggg
39256424

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 39256425 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
39256484

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 39256485 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
39256544

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|| |||||
Sbjct: 39256545 cttcaagtttccaacctctcattcagctcctccctcgactctccaaggaggactatgtca
39256604

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 39256605 tctgcaaaaagcatgcatctcggcgctatctcttg 39256639

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 11526260 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
11526201

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 11526200 tcaagtaccatacatctatccaaaccattaatttcgagatcctttttgataacctctctt
11526141

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 11526140 atagtctttttgggtcttcctctgcctcgaattgtttatcttctctccatctgggtctact
11526081

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatctt
1882

|||||
Sbjct: 11526080 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatctt
11526021

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 11526020 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
11525961

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 11525960 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
11525901

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 11525900 actttattctcatgttgggtcttgaccgccaacattctgttccatacaaaaatcgccggt
11525841

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 11525840 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
11525781

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

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Sbjct: 11525780 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 11525721

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 11525720 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 11525661

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 11525660 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 11525601

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 11525600 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagcttgt
 11525541

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 11525540 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 11525481

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 11525480 tctgcaaaaagcatgcatctcagcgctatctcttg 11525446

Score = 1558 bits (786), Expect = 0.0
 Identities = 810/817 (99%), Gaps = 2/817 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcgggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 27772133 aacgccttatcccactaggtggggcgggctacatggatcaacttccgccataatgttcta
 27772074

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 27772073 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
 27772014

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 27772013 atagtctttttgggtcttcctctgcctcaaattgtttgtcttctctccatctgggtctact
27771954

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

|||||
Sbjct: 27771953 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
27771894

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 27771893 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
27771834

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 27771833 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27771774

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 27771773 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
27771714

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 27771713 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
27771654

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 27771653 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
27771594

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaacc--gtgtgacttgag
2240

|||||
Sbjct: 27771593 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgtgacttgag
27771534

Query: 2241 ggataaatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaact
2300

|||||
Sbjct: 27771533 ggataaatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaact
27771474

Query: 2301 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
2360

|||||
Sbjct: 27771473 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
27771414

Query: 2361 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
2420

|||||
Sbjct: 27771413 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
27771354

Query: 2421 catctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 27771353 catctgcaaaaagcatgcatctcggcgctatctcttg 27771317

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 41288482 aacgccttatcccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
41288423

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 41288422 tcaagtaccatacttctatccaaatcattaagtttgagatcctttttgataacctctctt
41288363

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 41288362 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
41288303

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtcatttt
1882

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Sbjct: 41288302 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
41288243

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 41288242 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
41288183

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 41288182 attttatcccgctcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41288123

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcgctacaaaatcgccggt
2062

|||||
Sbjct: 41288122 actttattctcatggttggtctcttgactgccaacattctgttcgctacaaaatcgccggt
41288063

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 41288062 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
41288003

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 41288002 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
41287943

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 41287942 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
41287883

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 41287882 ataatatggtctcctattttcacctctaagttagaaaccctccttcttttggtgaactta
41287823

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 41287822 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41287763

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 41287762 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
41287703

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 41287702 tctgcaaaaagcatgcatctcggcgctatctcttg 41287668

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 41317282 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
41317223

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 41317222 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
41317163

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 41317162 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
41317103

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
1882

|||||
Sbjct: 41317102 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
41317043

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 41317042 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
41316983

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 41316982 attttatcctgttgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41316923

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 41316922 actttattctcatgttggctcttgaccgtccaacattctgttccgtacaaaatcgccggt
41316863

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 41316862 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttacatcacataac
41316803

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 41316802 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccg
41316743

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 41316742 tcaatttcccatcatcctgtattacaaaccaagatatattaaccgtgtgacttgaggg
41316683

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 41316682 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
41316623

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 41316622 cattccatataactccaatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41316563

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 41316562 ctccaagtttccaacctctcattcagctcctccctcgactctccaaggaggactatgtca
41316503

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 41316502 tctgcaaaaagcatgcatctcggcgctatctcttg 41316468

Score = 1548 bits (781), Expect = 0.0
Identities = 810/817 (99%), Gaps = 2/817 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 27899713 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
27899654

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 27899653 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
27899594

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 27899593 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
27899534

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 27899533 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
27899474

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 27899473 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
27899414

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 27899413 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27899354

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||

Sbjct: 27899353 actttattctcatgttggctcttgaccgcccacattctgttcggtacaaaaatcgctcggt
27899294

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 27899293 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
27899234

Query: 2123 acccccgatgcttttctcca-tttcatccatcctgcttgaatgcatgattcacat-ccc
2180

|||||
Sbjct: 27899233 acccccgatgcttttctccattttcatccatcctgcttgaatgcaatgattcacatccc
27899174

Query: 2181 cttcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgag
2240

|||||
Sbjct: 27899173 cttcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgag
27899114

Query: 2241 ggataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaact
2300

|||||
Sbjct: 27899113 ggataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaact
27899054

Query: 2301 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
2360

|||||
Sbjct: 27899053 tacattccatataactccgatttgcttctgcttaagcgaaagccatgtgtttctagagctc
27898994

Query: 2361 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
2420

|||||
Sbjct: 27898993 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
27898934

Query: 2421 catctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 27898933 catctgcaaaaagcatgcatctcggcgctatctcttg 27898897

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 11675443 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
11675384

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 11675383 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
11675324

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 11675323 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
11675264

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 11675263 ctctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagttctattt
11675204

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 11675203 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
11675144

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 11675143 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
11675084

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 11675083 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
11675024

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 11675023 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
11674964

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 11674963 acccccgatgcttttctccatttcgctccatcctgcttgaatgcgatgattcacatccct
11674904

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 11674903 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
11674844

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 11674843 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
11674784

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 11674783 cattccatataacttcgatttgcttctgcttaggcgaaagccatgtgtttctagagttcgt
11674724

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 11674723 ctccaagtttccaacctctcattcaactcatccctcgactctccaaggaggactatgtca
11674664

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 11674663 tctgcaaaaagcatgcatctcggcgctatctcttg 11674629

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 29881850 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
29881909

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 29881910 tcaagtaccatactttctatccaaatcattaagttcgagatcctttttgataacctctctt
29881969

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 29881970 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
29882029

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 29882030 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
29882089

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 29882090 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
29882149

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 29882150 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29882209

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 29882210 actttattctcatgttgggtcttgaccacccaacattctgttccgtacaaaatcgccggt
29882269

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 29882270 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
29882329

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 29882330 actccggtgcttttctccatttcatccatcctgcttgaatgcgatgaatcacatcccct
29882389

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 29882390 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
29882449

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 29882450 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
29882509

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 29882510 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
29882569

Query: 2363 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 29882570 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29882629

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 29882630 tctgcaaaaagcatgcatctcggcgctatctcttg 29882664

Score = 1521 bits (767), Expect = 0.0
Identities = 803/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 10550910 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
10550969

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 10550970 tcaagtaccatacttctattcaaatacattaagttcgagatccttcttgataacctctctt
10551029

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 10551030 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
10551089

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 10551090 ctctcactacagagtctactggtcttctctctacatgcccaaaccacctaagtctattt
10551149

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 10551150 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
10551209

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 10551210 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
10551269

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 10551270 actttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccgat
10551329

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 10551330 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
10551389

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 10551390 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
10551449

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 10551450 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
10551509

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 10551510 ataatatggtctcctattttccacctctgagttagataccctcctacttttgttgaactta
10551569

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362
|||||
Sbjct: 10551570 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
10551629

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
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Sbjct: 10551630 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
10551689

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 10551690 tctgcaaaaagcatgcatctcggcgctatctcttg 10551724

Score = 1521 bits (767), Expect = 0.0
Identities = 803/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 33089917 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
33089858

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 33089857 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
33089798

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 33089797 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
33089738

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882
|||||
Sbjct: 33089737 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
33089678

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 33089677 tccaccatcttctctacaataggcgctactccaaccctctctctaataagctccgttttcta
33089618

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 33089617 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
33089558

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 33089557 acttttagtctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgctggg
33089498

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 33089497 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
33089438

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 33089437 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacgtcccct
33089378

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 33089377 tcaatttctccatcatcatgtattacagacccaagatatattaaaccgtgtgacttgaggg
33089318

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 33089317 ataatatggtctcctattttcacctctgagttagataaccctcctacttttggtgaactta
33089258

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 33089257 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
33089198

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 33089197 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
33089138

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 33089137 tctgcaaaaagcatgcatctcggcgctatctcttg 33089103

Score = 1521 bits (767), Expect = 0.0
Identities = 804/815 (98%), Gaps = 1/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 46685435 aacgccttatcgactaggtggggtcggctacatggatcaacttccgccataatgttcta
46685494

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 46685495 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
46685554

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
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Sbjct: 46685555 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
46685614

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||||
Sbjct: 46685615 ctctcatgaaagagtttaccggtcttctctctacatgcccaaaccacctaagtctattt
46685674

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||||
Sbjct: 46685675 tccaccatcttctctacgataggcgctactccaaccctctctctaataagcttcgtttcta
46685734

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 46685735 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
46685794

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 46685795 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
46685854

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 46685855 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
46685914

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 46685915 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacat-ccct
46685973

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 46685974 tcaatttccccatcatcctgtattacagatccaagatatttaaaccgtgtgacttgaggg
46686033

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 46686034 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
46686093

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 46686094 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
46686153

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 46686154 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
46686213

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 46686214 tctgcaaaaagcatgcatctcggcgctatctcttg 46686248

Query: 2066 accgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataacacc
2125

Sbjct: 42725010 accgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
42724951

Query: 2126 cccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttca
2185

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Sbjct: 42724950 cccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttca
42724891

Query: 2186 atttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
2245

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Sbjct: 42724890 atttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
42724831

Query: 2246 atatggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttacat
2305

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Sbjct: 42724830 atatggtctcctattttccactctgagttagataccctcctacttttggtgaacttacat
42724771

Query: 2306 tccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
2365

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Sbjct: 42724770 tccatatactccgatttgcttctgcttagacgaaagccatgtggttctagagctcgtctc
42724711

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
2425

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Sbjct: 42724710 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
42724651

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 42724650 gcaaaaacatgcatctcggcgctatctcttg 42724619

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 3725808 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
3725867

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
1762

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Sbjct: 3725868 tcaagtatcatacttctatccaaaccattaatttcgagatccttttgataacctctctt
3725927

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 3725928 atagtctttttgggtcttcctctacctcgaattgtttgtcttctctccatctgggtctact
3725987

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 3725988 ctccctcactacagagtctaccggtcttctctttacatgcccaaaccacctaagtctattt
3726047

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

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Sbjct: 3726048 tccaccatcttctttacaataggcgctactccaaccctctctctaatagtttcgtttcta
3726107

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 3726108 attttaccttgtcgagtcttaccacacatccatcgcaacatcctcatctccgctacacct
3726167

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 3726168 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
3726227

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 3726228 cttatcgagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
3726287

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 3726288 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
3726347

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 3726348 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
3726407

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 3726408 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
3726467

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 3726468 catttcatatactccgatttgcttctgcttaggtgaaagccatgtggttctagagctcgt
3726527

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 3726528 ctccaagtttccaacctctcattcaactcctcccttgactctccaaggaggactatgtca
3726587

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 3726588 tctgcaaaaagcatgcatctcggcgctatctcttg 3726622

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 19001649 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
19001708

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 19001709 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
19001768

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 19001769 atagtctttttgggtcttctctgacctgaattgtttgcttctctccatctggtctact
19001828

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 19001829 ctctcactacagagtctaccagtcttctctctacatgcccaaaccacctaagtctattt
19001888

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

Sbjct: 19001889 tccactatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
19001948

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 19001949 attttatcatgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19002008

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

Sbjct: 19002009 actttagtctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
19002068

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 19002069 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
19002128

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

Sbjct: 19002129 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
19002188

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

Sbjct: 19002189 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
19002248

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 19002249 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
19002308

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 19002309 cattccatataactccgatttgcttctgcttaggcgaaagtcagtgtggttctagagctcgt
19002368

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 19002369 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
19002428

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 19002429 tctgcaaaaagcatgcatctcggcgctatctcttg 19002463

Score = 1501 bits (757), Expect = 0.0
Identities = 800/813 (98%), Gaps = 1/813 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 20475268 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
20475209

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 20475208 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
20475149

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 20475148 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
20475089

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 20475088 ctctcactacagagtctaccagtcttctctctacatgcccaaaccacctaagtctattt
20475029

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 20475028 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcatttcta
20474969

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 20474968 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
20474909

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 20474908 actttattctcatattgactcttgaccgccaacattctgttccgtacaaaatcgctcggt
20474849

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 20474848 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
20474789

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 20474788 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
20474729

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 20474728 tcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
20474669

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 20474668 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
20474609

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 20474608 cattccatataactccgatttgcttctgcttaggcg-aagccatgtgtttctagagctcgt
20474550

Query: 2363 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 20474549 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
20474490

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctct 2455

|||||
Sbjct: 20474489 tctgcaaaaacatgcatctcggcgctatctct 20474457

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 37069589 aacgccttatccactaggtggggtcggctacatggatcaacttccgtcataatgttcta
37069530

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 37069529 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
37069470

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 37069469 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
37069410

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 37069409 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
37069350

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttccgtttcta
1942

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Sbjct: 37069349 ttcaccatcttttctacaataggcgctactccaaccctctctctaatagttccgtttcta
37069290

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 37069289 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
37069230

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 37069229 actttagtctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgctggt
37069170

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
2122

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Sbjct: 37069169 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgtatcacataac
37069110

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 37069109 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatccct
37069050

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 37069049 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
37068990

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaaccctccttcttttgttgaaactta
2302

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Sbjct: 37068989 ataatatggtctcctattttcacctctgagttagataaccctcctacttttgttgaaactta
37068930

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 37068929 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
37068870

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 37068869 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
37068810

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 37068809 tctgcaaaaagcatgcatctcggcgctatctcttg 37068775

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 34097759 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
34097700

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 34097699 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
34097640

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 34097639 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
34097580

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882
|||||
Sbjct: 34097579 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
34097520

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
|| |||||
Sbjct: 34097519 tctaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
34097460

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 34097459 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
34097400

Query: 2003 actttattctcatgttgggtctttgaccgccccaacatttctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 34097399 acttttagtctcatgttgggtctttaaccgccccaacatttctgttacgtacaaaatcgccggt
34097340

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 34097339 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
34097280

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 34097279 acccccaatgttttctccatttcatccatcctgcttgaatgcatgattcacatccct
34097220

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 34097219 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
34097160

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 34097159 ataatatggtctcctattttcacctctgcgttagataccctcctacttttgttgaactta
34097100

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 34097099 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagcttgt
34097040

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 34097039 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
34096980

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 34096979 tctgcaaaaagcatgcatctcggcgctatctcttg 34096945

Score = 1473 bits (743), Expect = 0.0
Identities = 797/815 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Query: 2123 accccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

Sbjct: 402323 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 402264

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 402263 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 402204

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 402203 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
 402144

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 402143 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 402084

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 402083 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 402024

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 402023 tctgcaaaaagcatgcatctcggcgctatctcttg 401989

Score = 1441 bits (727), Expect = 0.0
 Identities = 793/815 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 24334853 aacgccttatcccactaggtgggatcggctacatggatcaacttccgccataatgttcta
 24334794

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 24334793 tcaagtaccatacttctattcaaatcattaagttcgagatccttcttgataacctctctt
 24334734

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 24334733 atactctttttgggtcttcctctgcctcgaattgtttgtcttctctccatttgggtctact
24334674

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 24334673 ctctcactacagagtctaccggtcttctctttacatgccccaaatcacctaagtctattt
24334614

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 24334613 tccaccatcttctctacaataggcgctactccaacccctctctctaatagtctcgtttcta
24334554

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 24334553 attttatcctgtcgagtcttaccacacatccactgcaacatcctcatctccgctacacct
24334494

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 24334493 acttttagtttcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
24334434

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 24334433 cttactgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
24334374

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 24334373 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
24334314

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 24334313 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
24334254

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 24334253 ataatatggtctcctattttcacctttgagttagataccctcctacttttgttgaactta
 24334194

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 24334193 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 24334134

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 24334133 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtta
 24334074

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 24334073 tctgcaaaaagcatgcatctcgacgctatctcttg 24334039

Score = 1344 bits (678), Expect = 0.0
 Identities = 693/698 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 491937 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 491996

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 491997 tcaagtaccatacttctatccaaatcattaagtgcgagatcctttttgataacctctctt
 492056

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 492057 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 492116

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||

Sbjct: 492117 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
492176

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|
Sbjct: 492177 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
492236

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|
Sbjct: 492237 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
492296

Query: 2003 actttattctcatggttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

|
Sbjct: 492297 actttattctcatggttggtctcttgaccgccccaatattctgttcggtacaaaatcgccggt
492356

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|
Sbjct: 492357 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
492416

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|
Sbjct: 492417 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
492476

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|
Sbjct: 492477 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
492536

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|
Sbjct: 492537 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
492596

Query: 2303 cattccatataactccgatttgcttctgcttagggcgaaa 2340
|

Sbjct: 492597 cattccatataactccgatttgcttctgcttagggcgaaa 492634

Score = 1205 bits (608), Expect = 0.0
Identities = 635/644 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||| ||||||||||||||||||||||||||||||||||| |||||||||||||||||
Sbjct: 36707791 aacgccttttcccactaggtggggtcggctacatggatcaatttccgccataatgttcta
36707732

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||||||||||||||||||||| ||||| |||||||||||||||||||||||||||||
Sbjct: 36707731 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
36707672

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 ||||| ||||||||||||||||||||||||||||||||||| ||| |||||||||||||||||
Sbjct: 36707671 atagtctttttgggtcttcctctgcctcgaattgtttgccttcgctccatctgggtctact
36707612

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcattt
1882
 ||||||||||||||||||||||||||||||||||| |||||||||||||||||||
Sbjct: 36707611 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcattt
36707552

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
 ||||||||||||||||||||||||||||||||||| |||||||||||||||||||
Sbjct: 36707551 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
36707492

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 ||||||||||||||||||||||||||||||||||| |||||||||||||||||||
Sbjct: 36707491 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
36707432

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
 ||||||||||||||||||||||||||||||||||| |||||||||||||||||||
Sbjct: 36707431 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
36707372

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 36707371 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
36707312

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 36707311 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
36707252

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 36707251 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
36707192

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctcct 2286

|||||
Sbjct: 36707191 ataatatggtctcctattttcacctctgagttagaaaccatcct 36707148

Score = 1164 bits (587), Expect = 0.0
Identities = 603/607 (99%), Gaps = 1/607 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 9109188 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
9109129

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 9109128 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
9109069

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 9109068 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
9109009

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||

Sbjct: 9109008 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
9108949

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 9108948 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
9108889

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 9108888 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatatccgctacacct
9108829

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 9108828 actttattctcatggttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
9108769

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 9108768 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
9108709

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

| |||||
Sbjct: 9108708 a-ccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
9108650

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 9108649 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
9108590

Query: 2243 ataatat 2249

|||||
Sbjct: 9108589 ataatat 9108583

Score = 1146 bits (578), Expect = 0.0
Identities = 616/626 (98%), Gaps = 2/626 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 36609450 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
36609509

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 36609510 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
36609569

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 36609570 atagtctttttgggtcttcctctgcctcgaattgtttgtcttcttctccatctgggtccact
36609629

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctat
1882

|||||
Sbjct: 36609630 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctatgt
36609689

Query: 1883 tccaccatcttctctacaa-taggcgctactccaaccctctctctaatagtcttcgtttct
1941

|||||
Sbjct: 36609690 tccaccatcttctctacaaataggcgctactccaaccctctctctaatagtcttcgtttct
36609749

Query: 1942 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
2001

|||||
Sbjct: 36609750 aattttatcctgtcgagtcttaccacaaatccaccgcaacatcctcatctccgctacacc
36609809

Query: 2002 tactttattctcatgttggtcttgaccgcccacattctgttcggtacaaaatcgccgg
2061

|||||
Sbjct: 36609810 tactttattctcatgttggtcttgaccgcccacattctgttcggtacaaaatcgccag
36609869

Query: 2062 tcttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataa
2121

|||||
Sbjct: 36609870 tcttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataa
36609929

Query: 2122 ccccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatcccc
2181
|||||
Sbjct: 36609930 ccccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatcccc
36609989

Query: 2182 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2241
|||||
Sbjct: 36609990 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
36610049

Query: 2242 gataatatgggtctcctattttcacct 2267
|||||
Sbjct: 36610050 gataatat-gtctcctattttcacct 36610074

Score = 1075 bits (542), Expect = 0.0
Identities = 584/598 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 5832237 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
5832296

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 5832297 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
5832356

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 5832357 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
5832416

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 5832417 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5832476

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
|||||

Sbjct: 5832477 tccaccatcttctctacaataggcgctactccaaccctctctctaataagctccgtttcta
5832536

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 5832537 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
5832596

Query: 2003 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 5832597 actttagtctcatgttggtccttgaccgcccacattctgttccgtacaaaattgccggt
5832656

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 5832657 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacatttgcatcacataac
5832716

Query: 2123 acccccgatgcttttctccatttcattcatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 5832717 acccccgatgcatttctccatttcattcatcctgcttgaatgtgatgattcacatctcct
5832776

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgag
2240

|||||
Sbjct: 5832777 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgag
5832834

Score = 1031 bits (520), Expect = 0.0
Identities = 547/556 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 24477031 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
24477090

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 24477091 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
24477150

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 24477151 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
24477210

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 24477211 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
24477270

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 24477271 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
24477330

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 24477331 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctctgctacacct
24477390

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 24477391 acttttagtctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
24477450

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 24477451 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
24477510

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 24477511 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
24477570

Query: 2183 tcaatttcccatcat 2198

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Sbjct: 24477571 tcaatttctccatcat 24477586

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Query: 2003      actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
2062            |||
Sbjct: 47763392 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
47763333
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Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 47763332 cttatcgcagtcgcgataaaaactttccctttaacttgatcggtacctttgcatcacataac
47763273

Query: 2123 acccccgatgcttttctccatttcattcatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 47763272 acccccgatgcttttctccatttcattcatcctgcttgaatgcatgattcacatccct
47763213

Query: 2183 tcaat 2187

|||||
Sbjct: 47763212 tcaat 47763208

Score = 934 bits (471), Expect = 0.0
Identities = 477/479 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 1338105 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1338164

Query: 1703 tcaagtaccatacttctatccaaaccattaatctcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 1338165 tcaagtaccatacttctatccaaaccattaatctcgagatcctttttgataacctctctt
1338224

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 1338225 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1338284

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 1338285 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1338344

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||

Sbjct: 1338345 tccaccatcttctctacaatagggcgctactccaactctctctctaataagcttcgtttcta
1338404

Query: 1943 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 1338405 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgctacacct
1338464

Query: 2003 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 1338465 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
1338524

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
2121

|||||
Sbjct: 1338525 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
1338583

Score = 930 bits (469), Expect = 0.0
Identities = 496/505 (98%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatcaag
1707

|||||
Sbjct: 45717026 cttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatcaag
45716967

Query: 1708 taccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatagt
1767

|||||
Sbjct: 45716966 taccatacttctatccaaatcattaagttcgagatccttcttgataacctctcttatagt
45716907

Query: 1768 ctttttgggtcttctctgcctcgaattggttgtcttctctccatctgggtctactctcct
1827

|||||
Sbjct: 45716906 ctttttgggtcttctctgtctcgaattggttgtcttctctccatctgggtctactctcct
45716847

Query: 1828 cactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattttccac
1887

|||||

Sbjct: 45716846 cactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttccac
 45716787

Query: 1888 catcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctaatttt
 1947

|||||
 Sbjct: 45716786 catcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctaatttt
 45716727

Query: 1948 atcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctaattt
 2007

|||||
 Sbjct: 45716726 atcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctaattt
 45716667

Query: 2008 attctcatggttggtctcttgaccgccccaacattctgttccgtacaaaatcgccggtcttac
 2067

| |||||
 Sbjct: 45716666 aatctcatggttggtctcttgaccgccccaacattctgtgccgtacaaaatcgccggtcttac
 45716607

Query: 2068 cgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataaacacccc
 2127

|||||
 Sbjct: 45716606 cgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataaacacccc
 45716547

Query: 2128 cgatgcttttctccatttcatccat 2152

|||||
 Sbjct: 45716546 cgatgcttttctccatttcatccat 45716522

Score = 791 bits (399), Expect = 0.0
 Identities = 417/423 (98%)
 Strand = Plus / Minus

Query: 2035 acatttctgttccgtacaaaatcgccggtcttaccgcagtcgcgataaaaactttcccttttag
 2094

|||||
 Sbjct: 11337596 acatttctgttccgtacaaaatcgccggtcttaccgcagtcgcgataaaaactttcccttttag
 11337537

Query: 2095 cttgatcggtacctttgcatcacataaacacccccgatgcttttctccatttcatccatcc
 2154

|||||
 Sbjct: 11337536 cttgatcggtacctttgcatcacataaacacccccgatgcttttctccatttcatccatcc
 11337477

Query: 2155 tgcttgaatgcgatgattcacatccccttcaatttcccatcatcctgtattacagaccc
2214
|||||
Sbjct: 11337476 tgcttgaatgcgatgattcacatccccttcaatttctccatcatcctgtattacagaccc
11337417

Query: 2215 aagatatttaaaccgtgtgacttgagggataaatatggtctcctattttcacctctgagtt
2274
|||||
Sbjct: 11337416 aagatatttaaaccgtgtgacttgagggataaatatggtctcctattttcacctctgagtt
11337357

Query: 2275 agaaaccctccttcttttgttgaacttacattccatataactccgatttgcttctgcttag
2334
||| |||||
Sbjct: 11337356 agataccctcctacttttgttgaacttacattccatataactccgatttgcttctgctttg
11337297

Query: 2335 gcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctcattcaactcctc
2394
|||||
Sbjct: 11337296 gcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctcattcaactcctc
11337237

Query: 2395 cctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatctc
2454
|||||
Sbjct: 11337236 cctcgactctccaaggaggactatgtcatctgcaaatagcatgcatctcggcgctatctc
11337177

Query: 2455 ttg 2457
|||
Sbjct: 11337176 ttg 11337174

Score = 728 bits (367), Expect = 0.0
Identities = 382/387 (98%)
Strand = Plus / Plus

Query: 1836 agtctaccggtcttctctctacatgcccaccacctaagtctattttccaccatcttct
1895
|||||
Sbjct: 2655245 agtctaccggtgttctctctacatgcccaccacctaagtctattttccaccatcttct
2655304

Query: 1896 ctacaataggcgctactccaaccctctctctaatagcttcggtttctaattttatcctgtc
1955

|||||
 Sbjct: 2655305 ctacaataggcgctactccaaccttctctctaataagcttcgtttctaattttatcctgtc
 2655364

Query: 1956 gagtcttaccacacatccaccgcaacatcctcatctccgctacacctactttatttctcat
 2015

|||||
 Sbjct: 2655365 gagtcttaccacacatccaccgcaacatcctcatctccgctacacctactttatttctcat
 2655424

Query: 2016 gttggctcttgaccgccaacattctgttccgtacaaaatcgccggtcttaccgcagtcc
 2075

|||||
 Sbjct: 2655425 gttggctcttgaccgccaacattctgttccgtacaaaatcgccggtcttatcgagtc
 2655484

Query: 2076 gataaaactttcccttttagcttgatcggtacctttgcatcacataacacccccgatgctt
 2135

|||||
 Sbjct: 2655485 gataaaactttcccttttagcttgatcagtcacctttgcatcacataacacccccgatgctt
 2655544

Query: 2136 ttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaatttcccat
 2195

|||||
 Sbjct: 2655545 ttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcagtttcccat
 2655604

Query: 2196 catcctgtattacagaccaagatatt 2222

|||||
 Sbjct: 2655605 catcctgtattacagaccaagatatt 2655631

Score = 623 bits (314), Expect = e-175
 Identities = 338/346 (97%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcgggtacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 37539039 aacgccttatcccactaggtggggcgggtacatggatcaacttccgccataatgttcta
 37539098

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 37539099 tcaagtaccatacttctatccaaatcattaagtccaagatcctttttgataacctctctt
 37539158

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 37539159 atagtctttttgggtcttcctctgcctcgaattgtttgccatctctccatctgggtctact
 37539218

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
 1882

|||||
 Sbjct: 37539219 ctctcactacagagtctgcccgtcttctctctacatgcccaccacctaagtctattt
 37539278

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
 1942

|||||
 Sbjct: 37539279 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcatttcta
 37539338

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctca 1988
 |||||
 Sbjct: 37539339 attttatcctgtcgagtcttaccacacatccaccgcaacatcctca 37539384

Score = 589 bits (297), Expect = e-165
 Identities = 315/321 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 16470961 aacgccttatccactaggtggggctcggctacatggatcaacttttgccatagtgttcta
 16470902

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 16470901 tcaagtaccatacttctatccaaaccattaatttcgaggtccttttttataacctctctt
 16470842

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 16470841 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 16470782

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcattt
1882

|||||
Sbjct: 16470781 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtcattt
16470722

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 16470721 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
16470662

Query: 1943 attttatcctgtcgagtctta 1963

|||||
Sbjct: 16470661 attttatcctgtcgagtctta 16470641

Score = 561 bits (283), Expect = e-157
Identities = 292/295 (98%)
Strand = Plus / Plus

Query: 1719 tatccaaaccattaatttcgagatcctttttgataacctctcttatagtccttttgggtc
1778

|||||
Sbjct: 28102474 tatccaaatcattaagttcgagatcctttttgataacctctcttatagtccttttgggtc
28102533

Query: 1779 ttcctctgcctcgaattgtttgtcttctctccatctggtctactctcctcactacagagt
1838

|||||
Sbjct: 28102534 ttcctctgcctcgaattgtttgccttctctccatctggtctactctcctcactacagagt
28102593

Query: 1839 ctaccggtcttctctctacatgcccaaaccacctaagtcattttccaccatcttctcta
1898

|||||
Sbjct: 28102594 ctaccggtcttctctctacatgcccaaaccacctaagtcattttccaccatcttctcta
28102653

Query: 1899 caataggcgctactccaaccctctctctaataagcttcgtttctaattttatcctgtcgag
1958

|||||
Sbjct: 28102654 caataggcgctactccaaccctctctctaataagcttcgtttctaattttatcctgtcgag
28102713

Query: 1959 tcttaccacacatccaccgcaacatcctcatctccgctacacctactttattctc 2013
|||||

Sbjct: 28102714 tcttaccacacatccaccgcaacatcctcatctccgctacacctactttattctc
28102768

Score = 486 bits (245), Expect = e-134
Identities = 254/257 (98%)
Strand = Plus / Plus

Query: 1644 acgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctat
1703

|||||
Sbjct: 41947499 acgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctat
41947558

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
1763

|||||
Sbjct: 41947559 caagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctta
41947618

Query: 1764 tagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
1823

|||||
Sbjct: 41947619 tagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
41947678

Query: 1824 tcctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatttt
1883

|||||
Sbjct: 41947679 tcctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatttt
41947738

Query: 1884 ccaccatcttctctaca 1900
|||||
Sbjct: 41947739 ccaccatcttctctaca 41947755

Score = 410 bits (207), Expect = e-111
Identities = 232/239 (97%), Gaps = 1/239 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 9034191 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
9034250

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttggataacctctctt
1762
 |||||
Sbjct: 9034251 tcaagtaccatacttctatccaaatcattaagttcgagatccttttggataacttctctt
9034310

Query: 1763 atagtcttttgggtcttcctctgcctcgaattgtttg-tcttctctccatctgggtctac
1821
 |||||
Sbjct: 9034311 atagtcttttgggtcttcctctgcctcgaattgtttgcccttctctccatctgggttac
9034370

Query: 1822 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctat
1880
 |||||
Sbjct: 9034371 tctccttactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctat
9034429

Score = 361 bits (182), Expect = 1e-96
Identities = 518/622 (83%), Gaps = 11/622 (1%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggttacctgattcttggatatccattttgggtgtgt
6737
 |||||
Sbjct: 2641822 atgcgacacatggaacatcattttagttgacctgttcttagatatccattttgtgtgt
2641763

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797
 |||||
Sbjct: 2641762 atacgagagaagacaagacgacctttagaatttcttttcatttttaggttaagacagatt
2641703

Query: 6798 cttggcttgtagacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857
 |||||
Sbjct: 2641702 cttggcttgtaacacagtgatcaatatgcttcggtgcacaatcccctaacaatcctatg
2641643

Query: 6858 tacatgttatagatacttttcagcgatatacacaagatgtatgtagttcctatactcatgg
6917
 |||||
Sbjct: 2641642 tacatgttgacacactttccagtgtatagcatgatgtttgtagttcctacactcgtga
2641583

Query: 6918 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
6974

|||||
Sbjct: 2641582 tgagcatgcttacaagcagcaacaacatgagaacaacgcacatgaattttttggaatttg
2641523

Query: 6975 tcacagtcacactacctttcatctagcttgaccatgaaattttctcact-agttgaatctc
7033

|||||
Sbjct: 2641522 tcacagtcacaccacctttcatctaccctgatcctgaaatttc-cagtgagtagaa--cc
2641466

Query: 7034 tctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaaga
7093

|||||
Sbjct: 2641465 tctctcgggttaattgtctgctggactaagaactatgtgtcacatcaatcaaactcaaga
2641406

Query: 7094 acaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaatacttttgta
7153

|||||
Sbjct: 2641405 acaatgtgagagtttatctttctctgtgtatcttccatagccatgtttaataacttggtga
2641346

Query: 7154 taaacttcaccaaataatcactcttgcgacttctctccccctttgggtgaacaatgca
7213

|||||
Sbjct: 2641345 taaacttggccatacgaataatcattaatgcgacttctctccactttgggtgaacaatgca
2641286

Query: 7214 ttaca-cctagtagtaggttgattttaccaacacac--attgccagattttgtggttttctt
7270

|||
Sbjct: 2641285 ttatatccta-tataggttgattttaccagcgcacttattggcagatttcgtggttttat
2641227

Query: 7271 gagtaccaaattaattaactca 7292

|||||
Sbjct: 2641226 tagtaccgaattaattgactca 2641205

Score = 315 bits (159), Expect = 7e-83
Identities = 174/179 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 2655073 aacgccttatcccactaggtggggtcgactacatggatcaacttccgccataatgttcta
2655132

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 2655133 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
2655192

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctac
1821

|||||
Sbjct: 2655193 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatttagtctac
2655251

Score = 291 bits (147), Expect = 1e-75
Identities = 321/378 (84%), Gaps = 2/378 (0%)
Strand = Plus / Minus

Query: 7387 aacacacatgacaaatattttttattataaaacaaacacccagtgatacaacaatgaacaa
7446

|||| |
Sbjct: 2639050 aacaaacatgacgaatattttttattacaaaacaaacacttagtaatacaacaatgaacaa
2638991

Query: 7447 cacacatgacaactacaaatcattaaataatacaattacaatcaaataatttggggagggg
7506

||||| |
Sbjct: 2638990 cacacatgatgattataaatcattagataataaaataataatcaaataatttggggggggg
2638931

Query: 7507 ggt--cttcaaaacttgattcaaggttcattgtatcatcgagggtattcacccaaaccctc
7564

||| |
Sbjct: 2638930 ggtttcttcaaaactcaattcaaggttcattaattcatcgagggtattcatccaaaccctc
2638871

Query: 7565 caaattcaaagagcttgacagaaactgggtgggtggttgatgcatatgtttatgtgggtgtgtc
7624

|||||
Sbjct: 2638870 caaattcaaagagcttgcaaaaattgggtgggtggttgatgcatatgtttatgtggtgtgtc
2638811

Query: 7625 tacgggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaa
7684

|| |

Sbjct: 2638810 tatgatggtaagatataactcgaggcatttgagggtggagagttgcacgaatatataaaa
2638751

Query: 7685 catagtaattatttcctcatcatcttgacgcatacatgccctgtactgaaaacaatcacc
7744

|||| |||||| | | |||||| | | ||| |||| |||||| |||||| |||||
Sbjct: 2638750 cataataattatgtctttatcatcttacagtatgcatgtcctgtattgaaaacaatcacc
2638691

Query: 7745 aacaaatgatacgggaca 7762
|||| | |||| |||||
Sbjct: 2638690 aacagataatacaggaca 2638673

Score = 252 bits (127), Expect = 9e-64
Identities = 133/135 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 42439065 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
42439124

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||||||||||||| | ||||||||||||||||||||||||||||||||||
Sbjct: 42439125 tcaagtaccatacttctattcaaaccattaatttcgagatccttttttataacctctctt
42439184

Query: 1763 atagtctttttgggt 1777
|||||||||||||||
Sbjct: 42439185 atagtctttttgggt 42439199

Score = 230 bits (116), Expect = 3e-57
Identities = 131/136 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

|||||||||||||| | ||||||||||||||||||||||||||||||||||
Sbjct: 49386571 aacgccttatcccattaggtggggctcggctacatggatcaacttccgccataatggttcta
49386512

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 49386511 tcaagtaccatacttggatccaaaccattaatttcgagatcctttttataacctctctt
49386452

Query: 1763 atagtctttttgggtc 1778
|||||
Sbjct: 49386451 gtagtctttttgggtc 49386436

Score = 228 bits (115), Expect = 1e-56
Identities = 212/243 (87%), Gaps = 1/243 (0%)
Strand = Plus / Plus

Query: 6428 aaatcctttgtatttttattttatttgattattataatacataattaacaacaacttaa
6487
|||||
Sbjct: 27786116 aaatcctttgtattttcattttatttgattggtgaaatacacataatcaacaacataa
27786175

Query: 6488 ttgaaattaaaaaatat-atatttaactgacaagttgacttgaactaaaatatttaaatt
6546
|||||
Sbjct: 27786176 ttgaaataaaaaaaaaacataatttaaccaacaagttgaattgaacaaaagtatttaaatt
27786235

Query: 6547 acaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaa
6606
| |||||
Sbjct: 27786236 aaaaaatagacataaaaattacaaacaatataacaaagtatttaaatttgaaacaatacaa
27786295

Query: 6607 caaaaatttttaaaatacaaacatattggcataaaattaatggttggtggcctgagcctaca
6666
||||
Sbjct: 27786296 caaatttttttaaaatacaatgaatatgatataaacttaatggttggtggcctgaacctaca
27786355

Query: 6667 caa 6669
|||
Sbjct: 27786356 caa 27786358

Score = 222 bits (112), Expect = 8e-55
Identities = 124/128 (96%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttctatca
 1705

Sbjct: 26726937 gccttatcccactagatggggctcggtacatggatcaacttccgccataatgttctatca
 26726996

Query: 1706 agtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
 1765

Sbjct: 26726997 agtaccataacttctatccaaatcattaagttcgagatccttcttgataacctctcttata
 26727056

Query: 1766 gtcttttt 1773

Sbjct: 26727057 gtcttttt 26727064

Score = 218 bits (110), Expect = 1e-53
 Identities = 203/233 (87%), Gaps = 2/233 (0%)
 Strand = Plus / Minus

Query: 6434 tttgtatTTTTtattttatttgattattataataacataattaacaacaacttaattgaaa
 6493

Sbjct: 24229308 tttgtatTTTtcaatttatttgattaataaaaatacataattaatcaacaacttaattgaca
 24229249

Query: 6494 ttaaaaaatatatatTTtaactgacaagttgacttgaactaaaatatttaaattacaaaat
 6553

Sbjct: 24229248 taaaaaaaaatat--ttaaccaacaacttgaattgaactaaaatatttaaattataaaat
 24229191

Query: 6554 agatatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaaaat
 6613

Sbjct: 24229190 agatataaaattataaaaaatagaataaaatatttaaattccaacaatacaataaaatt
 24229131

Query: 6614 tttaaaatacaaaacaatatggcataaaattaatgttggtggcctgagcctaca 6666

Sbjct: 24229130 tttaaaatataaacaatatgacataaaatttaactttgttggtgagcctaca
 24229078

Score = 216 bits (109), Expect = 5e-53
Identities = 231/269 (85%), Gaps = 2/269 (0%)
Strand = Plus / Plus

Query: 7484 acaatcaaataatttggggaggggggtcttcaaaacttgattcaagggttcattgtatcatc
7543
|||||
Sbjct: 27791151 acaatcaaataaattaggggtgggtttcttcaaaactcgattcaagggttcattgattcatt
27791210

Query: 7544 gaggtattcacccaaaccctccaaattcaaagagcttgcagaaactgggtgggtgtgtgc
7603
|||||
Sbjct: 27791211 gaggtattcatccaaaccctccaaattcaaagagcttgcagaaattgatgggtgggtgtgtgc
27791270

Query: 7604 atatgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaa
7663
|||||
Sbjct: 27791271 ccatgtttgtgtgggtgtgt-tacggtggtaagatataactcaaggcatataagggtgga
27791329

Query: 7664 gagtttcccaaatatagaaaacatagtaattatttcctcatcatcttgcagcatacatgc
7723
|||||
Sbjct: 27791330 ttgtttcttcaatattaaaaacatagtaattatgttttcatcatcttgcagtatgc-tgc
27791388

Query: 7724 cctgtactgaaaacaatcaccaacaaatg 7752
|||||
Sbjct: 27791389 cctgtactgaaaacaatcactaacaaatg 27791417

Score = 204 bits (103), Expect = 2e-49
Identities = 261/311 (83%), Gaps = 2/311 (0%)
Strand = Plus / Minus

Query: 7445 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttggggag
7504
|||||
Sbjct: 28169060 aacacgcatgatgactacaaaatattaaataataaaaatatcaatcaaataagttgggt-g
28169002

Query: 7505 ggggtcttcaaaacttgattcaagggttcattgtatcatcgagggtattcacccaaaccctc
7564
|
Sbjct: 28169001 gttttcttcaaaacttgattcaagggttcattgcttaatcgagggtattcatccaaaccctc
28168942

Query: 7565 caaattcaaagagcttgcagaaactgggtgggtgtgcatatgtttatgtgggtgtgtc
7624

|||||
Sbjct: 28168941 taaattcaaagagctggtagaaattagtgggtggatgcgtacatgtttgtgtgggtgtgtc
28168882

Query: 7625 tacgggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaa
7684

| | |||||
Sbjct: 28168881 tgcagtgataatatataagtcgaggcatgtg-agttggagatttctccaaacataaaaaa
28168823

Query: 7685 catagtaattatttcctcatcatcttgcagcatacatgccctgtactgaaaacaatcacc
7744

|||||
Sbjct: 28168822 tatagtcattacgtcctcatcatcatgcagcatgcctgtactggccacaatcacc
28168763

Query: 7745 aacaaatgata 7755

|||||
Sbjct: 28168762 aacaaatgata 28168752

Score = 200 bits (101), Expect = 3e-48
Identities = 185/213 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 5043571 aaaattaattgtcacaaaatttattatataaatctatatgtgcattaaatatacattaga
5043512

Query: 5177 aatthttagtgttatatthtagtgaaatthattatthttataacataattgatgtattagttc
5236

|||||
Sbjct: 5043511 aatthttagtgttatatataatgacattatthttataacataattgacctattagctt
5043452

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 5043451 agttgggttagaggggtgtgttaataatgtaaaagtcataggtttaatttttgcattggacc
5043392

Query: 5297 attaatthttaaatthatttgttaaaatatatthtt 5329

|||||
Sbjct: 5043391 attaatTTTaaattaattcgtaaaacatatTTT 5043359

Score = 198 bits (100), Expect = 1e-47
Identities = 170/192 (88%), Gaps = 1/192 (0%)
Strand = Plus / Minus

Query: 6485 taattgaaattaaaaaatat-atattttaactgacaagttgacttgaactaaaatatttaa
6543

|||||
Sbjct: 2642038 taattgaaattaaaaaaaaacatatTTTaaccaacaagttgaattgaactaaaatatttaa
2641979

Query: 6544 attacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataata
6603

|||||
Sbjct: 2641978 attacaaaatagacataaaaattaaaaataataggacaaaatatttaaatttgaaacaata
2641919

Query: 6604 caacaaaaatttttaaaatacaaaacaatatggcataaaattaatggttggtggcctgagcct
6663

|||||
Sbjct: 2641918 caacaaaaatttttaaaatacaaccagtatgacataaacttaatatattggcctgaacct
2641859

Query: 6664 acacaatggggg 6675

||||
Sbjct: 2641858 acacgatggggg 2641847

Score = 192 bits (97), Expect = 7e-46
Identities = 182/209 (87%), Gaps = 1/209 (0%)
Strand = Plus / Plus

Query: 1191 ttataatcataccttttctcggccttttggctaagatcaagtgtagtatctgttcttatca
1250

|||||
Sbjct: 48881537 ttatattcataccttttctcggccttttggctaagatcaagtgtagtatctgttcttatca
48881596

Query: 1251 gtttaatatctgatatgtggggtcattggcccacatgatattaaattttttttgaaggg
1310

|||||
Sbjct: 48881597 gtttaatatctgatatgtggaccattggtccacacgatattaaattactttttttgaaggg
48881656

Query: 1311 tggggcctgacatagtagcttgctactgggggttcttaagcgtagcctgtgtcttgact
1370
||| | | | ||||| ||| ||| | | | ||| |||||
Sbjct: 48881657 gaggggccaatacagtagcttgctact-gggctctcatgggtcgcccatgtgttgact
48881715

Query: 1371 actgcatgggcctggcgcaccctacgatt 1399
| ||| ||||| ||||| |||||
Sbjct: 48881716 attgcttgggcctggcgcaccctccgatt 48881744

Score = 186 bits (94), Expect = 4e-44
Identities = 269/326 (82%), Gaps = 1/326 (0%)
Strand = Plus / Minus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29915987 atacaacaatgaaaaacacacatgatcactacaaatcattaaataataaaaatagtaatca
29915928

Query: 7491 aataatttggggagggggtcttcaaaacttgattcaagggtcattgtatcatcgaggat
7550
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29915927 aataaattggg-aggggttcttcaaaactcaattcaagggtcattgcttcatggaggat
29915869

Query: 7551 tcacccaaaccctccaaattcaaagagcttgcagaaactgggtgggtgtgcatatggt
7610
||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29915868 tcatccaaaccctctaaattcaaagagtttgcagaaattgggtggcgatgtgaaattttt
29915809

Query: 7611 tatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtttc
7670
| ||||| ||||| | ||| ||| ||||| ||| ||||| | ||| |||||
Sbjct: 29915808 tgtgtgggtgtgtttgaggtggtaataaaaactctagacatgtaaggttggagagttga
29915749

Query: 7671 ccaaatatagaaaacatagtaattatttcctcatcatcttgcagcatatgccttgatc
7730
| || ||||| ||| | ||| | ||||| ||||| ||| ||||| |||||
Sbjct: 29915748 ctgaacatagaaaatataatcattacattctcatcatcatgcagtatgtatgccttgatc
29915689

Query: 7731 tgaaaacaatcaccaacaatgatac 7756
|| ||||| |||||

Sbjct: 29915688 tgggcacaatcaccagtaaataatgatac 29915663

Score = 186 bits (94), Expect = 4e-44
Identities = 109/114 (95%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaa
1256

|||||
Sbjct: 48821239 tcatacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaa
48821298

Query: 1257 tatctgatatgtgggtcattggccacatgatattaaatttattttttgaaggg 1310

|||||
Sbjct: 48821299 tatctgatatgtgggtcattgggtccacacgatattaaattacttttttaaggg
48821352

Score = 180 bits (91), Expect = 3e-42
Identities = 185/215 (86%), Gaps = 1/215 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 44274277 aaaattaattatcacaaaatttattatttaaatttacatgtgcattgaatatattaga
44274218

Query: 5177 aatttt-agtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

|||||
Sbjct: 44274217 aatttttagtggttatatataacaacattattttattttataacataattcaactattagtt
44274158

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295

|||||
Sbjct: 44274157 tagttgggttagagtgatgttaataacttgaaagtcacaagtttaactcttgcttgaat
44274098

Query: 5296 cattaatttttaaattaatttgtaaaatatattttt 5330

|||||
Sbjct: 44274097 cattaatttttaaattaatttgtaaaatatattttt 44274063

Score = 178 bits (90), Expect = 1e-41
Identities = 208/246 (84%), Gaps = 6/246 (2%)
Strand = Plus / Plus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
7101
 |||||
Sbjct: 27383505 gttaattgtctcatagactaagaatcatatgtcgtatcgatcaaattcaagaacaatgtg
27383564

Query: 7102 agagtttgcctttttctgtatgtctttcatagccttggttaataacttttgataaaacttc
7161
 ||| ||||| | || ||||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27383565 ----ttttcctttctttgggtgtcttccatggccttgtttagtacttgcgataaaacttg
27383620

Query: 7162 accaaataatcactcttgcgacttctctccccctttggttgaacaatgcattacacct
7221
 ||||| || | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27383621 gccaaatgtaagcattgctgcgacttctctccctctttggttgaacaatgcattacacct
27383680

Query: 7222 agtatagggttgattttaccaacacac--attgccagattttgtgttttcttgagtaccaa
7279
 |||| ||||| ||||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27383681 tatatatggttgattttactagcacacttattggcagattttgtgttttcttaagtaccaa
27383740

Query: 7280 attaat 7285
 |||||
Sbjct: 27383741 attaat 27383746

Score = 174 bits (88), Expect = 2e-40
Identities = 88/88 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 40496392 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
40496451

Query: 1703 tcaagtaccatacttctatccaaaccat 1730
 |||||
Sbjct: 40496452 tcaagtaccatacttctatccaaaccat 40496479

```
Query: 5178      atttt-agtgttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236            ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 40431363 atttttactgttatatatattaacattatttatttttataacataattgacctattagctc
40431304
```

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||| |||||| || ||| |||||| |||||| ||| ||||| | |||| ||||| ||
Sbjct: 40431303 agttagttagagtatcatgctaataatatgaaaatcacaagtttgactcttgcttgggtc
40431244

Query: 5297 attaatTTTaaattaatttGTaaaatatattttt 5330
||||||| |||||||
Sbjct: 40431243 attaatTTTaaattaattcataaaaatatattttt 40431210

Score = 161 bits (81), Expect = 3e-36
Identities = 120/133 (90%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
||||||| ||||||| ||||||| ||| || ||||||| |||||||
Sbjct: 35860339 aaaattaattgtcacaaaatttattatctaaatttgcattaaatatacattaga
35860398

Query: 5177 aatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||| ||||| || || ||||||| ||||||| ||||||| ||||| ||
Sbjct: 35860399 aatttttagtgttatatatagcgacgttaattattttataacataattgatctattagctc
35860458

Query: 5237 agttggttagagc 5249
|||| ||||||
Sbjct: 35860459 agttgtttagagc 35860471

Score = 161 bits (81), Expect = 3e-36
Identities = 120/133 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
||||||| ||||||| ||||||| ||||| || ||||||| |||||||
Sbjct: 39122781 aaaattaattgtcacaaaatttattatgtaaatttgcattaaatatacattaga
39122722

Query: 5177 aatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||| ||||| ||||||| || || ||||||| ||||||| ||||| ||
Sbjct: 39122721 aatttttagtgttatatatagtgacattaattattttacaatgtaattgatctattagctc
39122662

Query: 5237 agttggtagagc 5249
|||||||
Sbjct: 39122661 agttggtagagc 39122649

Score = 151 bits (76), Expect = 2e-33
Identities = 187/224 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||||| | ||||| ||||| ||||| | || ||||| |||||
Sbjct: 126760 aaaattaattatcacaaaatttattatttaaatttacgtgtgcattaaatatatataaa
126819

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||| ||||| || | ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 126820 aatttttagtattatatataacaacattattttattttataacataattgtgatattagctc
126879

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||| | ||||| || ||||| || ||||| || ||||| ||||| ||
Sbjct: 126880 agttgattagagcatcgtgttaataatttataaaatcatagatttaattcctacttaaatt
126939

Query: 5297 attaatTTTaaattaatttgTaaaatatatttttgaaaaaaaaa 5340
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 126940 attaatTTTaaattaattttataaaatatatttttgaaaaaaaaa 126983

Score = 147 bits (74), Expect = 4e-32
Identities = 144/166 (86%), Gaps = 1/166 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||||| ||||| ||||| ||||| || ||||| || ||||| ||||| |||||
Sbjct: 41141804 aaaattaattgttacaaaatttatcatgtaaacttatatgcattataaatatatattaga
41141745

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||| ||||| || || ||||| ||||| ||||| || ||||| |||||

Score = 145 bits (73), Expect = 1e-31
Identities = 76/77 (98%)
Strand = Plus / Plus

```
Query: 1703      tcaagtaccatacttct 1719
              |||||
Sbjct: 48654591 tcaagtaccatacttct 48654607
```

Score = 137 bits (69), Expect = 4e-29
Identities = 135/157 (85%)
Strand = Plus / Minus

```

Query: 5117      aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176           |||||
Sbjct: 690951   aaaattaattatcacagaatttattatataaaatttacatgtgcattaaatatacattaga
690892

```

```
Query: 5177      aat ttt agt gtt ata tt t agt ga aa tta att at ttt tata ac ata att gat gt att ag ttc  
5236           ||| | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 690891   aat ttt agt gtt ata ta ta aca ac att gat t at ttt tata ac ata att gg ttt att a act c  
690832
```

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtca 5273
|||||
Sbjct: 690831 aattgqttagaagtqtqtgttaataacgtgaaaagtca 690795

Score = 137 bits (69), Expect = 4e-29

Identities = 72/73 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 7960696 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgtcataatgttcta
7960637

Query: 1703 tcaagtaccatac 1715
|||||
Sbjct: 7960636 tcaagtaccatac 7960624

Score = 137 bits (69), Expect = 4e-29
Identities = 114/128 (89%), Gaps = 2/128 (1%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaataacattag
5175
|||||
Sbjct: 39008046 aaaaattaatt--tacaaaatttattatgttaaatttacatgtgcattaaatatattag
39008103

Query: 5176 aaatTTtagtgTTatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235
|||||
Sbjct: 39008104 aaatTTtagtgTTatatataacgatattaattatTTTataacataattgacatatattagtt
39008163

Query: 5236 cagttggt 5243
|||||
Sbjct: 39008164 cagttggt 39008171

Score = 135 bits (68), Expect = 1e-28
Identities = 200/243 (82%), Gaps = 2/243 (0%)
Strand = Plus / Plus

Query: 7045 aattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgaga
7104
|||||
Sbjct: 27786754 aattgtctcctgaactaagaatcgtgtgtcgcacatcaatcgaactcaagaataatgtgaga
27786813

Score = 135 bits (68), Expect = 1e-28
Identities = 116/132 (87%)
Strand = Plus / Plus

Sbjct: 27382957 taattgaaataaaaaaa-atacatttaaccaacaagttgaattgaactaaaatgtttaaa
27383015

Query: 6545 ttacaaaatagatatgaaattacaaacaatagaacaaaatattttaaa 6591
|||||
Sbjct: 27383016 ttacaaaatagatatataaaattacaaacaatagaacaaaatattttaaa 27383062

Score = 131 bits (66), Expect = 2e-27
Identities = 126/146 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 43653831 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatgcattaga
43653772

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 43653771 aatttttagtggttatgtatagtaattattttattttataacataattgactgattatctt
43653712

Query: 5237 agttggtagagcattatgttaataa 5262
|||||
Sbjct: 43653711 agttggtagagcggttgcttaataa 43653686

Score = 129 bits (65), Expect = 9e-27
Identities = 113/129 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 33535197 aaaattaattgttataaaatttattatgttaaatttacatgtggattaaatatacattaaa
33535138

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 33535137 aatttttagtggtcatatatagtaacattaattattttataatataattgacatattaattc
33535078

Query: 5237 agttggtta 5245

|||||
Sbjct: 33535077 agttggtta 33535069

Score = 127 bits (64), Expect = 3e-26
Identities = 100/112 (89%)
Strand = Plus / Plus

Query: 5112 agggaaaaattaattgttacaaaatttattatctaaatttgcacataacataataca
5171

|||| |
Sbjct: 879276 aggacaaaattaattgtcacaaaatttattatctaaatttacatacacattaaatatata
879335

Query: 5172 ttagaaatTTtagtggttatTTtagtgaaattaattatTTtataacataatt 5223

||| |
Sbjct: 879336 ttaaaaatTTtagtggttatatacggtgacattaattatTTtataaatataatt 879387

Score = 127 bits (64), Expect = 3e-26
Identities = 115/132 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataacataacattaga
5176

|||| |
Sbjct: 42888316 aaaattaattatcacaaaacttataatataaaatttacatgtacattaaatatacattaaa
42888375

Query: 5177 aatTTtagtggttatTTtagtgaaattaattatTTtataacataattgatgtattagttc
5236

|||| |
Sbjct: 42888376 aatTTtaattatataatagtgacattaattatTTtataacataattgatctattaactc
42888435

Query: 5237 agttggtagag 5248

|||| |
Sbjct: 42888436 agttgattagag 42888447

Score = 127 bits (64), Expect = 3e-26
Identities = 184/224 (82%)
Strand = Plus / Plus

Score = 125 bits (63), Expect = 1e-25
Identities = 127/147 (86%), Gaps = 1/147 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||| | ||||||| ||||||| ||| || ||||||| |||||||
Sbjct: 39123022 aaaattaattgtcataaaatttattatctaaatttacatgtacattaaatatgcattaga
39123081

Query: 5177 aatttttagtggttatatttagtgaa-attaattattttataacataattgatgtattagtt
5235

||||| ||||| || || ||||||| ||||||| | ||||| | ||||||| |
Sbjct: 39123082 aatttttagtactatatatagccaacattaattattttataatacaattgggtttattagct
39123141

Query: 5236 cagttgggttagagcattatgttaataa 5262
||||| ||||| |||||||
Sbjct: 39123142 cagttgggttatagcatcggtgtaataa 39123168

Score = 123 bits (62), Expect = 5e-25
Identities = 143/168 (85%), Gaps = 9/168 (5%)
Strand = Plus / Minus

Query: 2538 cacacactgtaacatgtaccagattctcg----ttcttttaaatttgtaaataatattttt
2593

|||| ||||||| ||||||| ||||||| ||||||| ||||||| |||
Sbjct: 8047212 cacagactgtaacatgtaccagggttctcggttctttcttttaaatttgtaataatatattt
8047153

Query: 2594 tttcttttctaaacatgcagagtcacaaataatgcttatgttttgcttc--ttctatagg
2651

| ||||||| || || ||||||| ||||| || | ||||| |
Sbjct: 8047152 t---tttctaaacatgcaaaattatcaaaataatgcttttggtctgttacctctctataag
8047096

Query: 2652 ttcaaaaacatggaattcatcctcaacatctctctcggttaacttatga 2699

||||| | ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 8047095 ttcaaaaccttggaattcatcctcaacatctctctccgtaacttatga 8047048

Score = 123 bits (62), Expect = 5e-25
Identities = 118/136 (86%), Gaps = 3/136 (2%)
Strand = Plus / Minus

Query: 6882 gtatacacaagatgtatgtagttcctataactcatgggtgagcatgcttata---aacaaca
6938

||||| ||||||| ||||||| ||||||| ||||||| | |||||||

```
Query: 7739      atcaccaacaaatgatac 7756
              ||||| |||||
Sbjct: 29975187 atcactaacaaatgatac 29975204
```


Query: 5177 aatttttagtgttatatatttagtgaaattaattatttttataacataattgatgtattagttc
5236

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

Query: 6882 gtatacacaagatgtatgtagttcctataactcatggtgagcatgcttataaa---caaca
6938

Query: 6939 acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
6998

Query: 6999 agcttgaccatgaaatctctcactagttgaatctctctctccagttaattgtctcctaga
7058

Query: 7059 ctaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgccttt 7114

Sbjct: 36248361 ccaagaaccgtgtatcgcatcaatcaaactcaagaacaatgtgagtgtttgtcttt
36248416

Score = 113 bits (57), Expect = 5e-22
Identities = 87/97 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 39224120 aaaattaattgtcacaaaatttattatctaaatttacacatacattaaatatacattaga
39224179

Query: 5177 aatttttagtggttatatttagtgaaattaattatttta 5213

|||||
Sbjct: 39224180 aatttttagtggttacatataatgatattaattatttta 39224216

Score = 111 bits (56), Expect = 2e-21
Identities = 155/188 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 3652326 aaaattaattgtcactaaatttattatttaaatttacatgcgcgttaaataatgcattaga
3652267

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 3652266 aatttttagtggttatatatagcaacattatttattttataacgtaattgactcattagctc
3652207

Query: 5237 agttggtttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 3652206 agttgattagaattttgtattaataacttgaaagtcacgggttgagtcttgcttggatc
3652147

Query: 5297 attaat 5304

|||||
Sbjct: 3652146 attaat 3652139

Score = 111 bits (56), Expect = 2e-21
 Identities = 113/132 (85%)
 Strand = Plus / Plus

Query: 6887 cacaagatgtatgtagttcctatactcatggtgagcatgcttataaacaacaacatgaga
 6946
 |||||||
 Sbjct: 27786598 cacaagatgtatgtagttcctgtactcatggtgagcatgcttacaagcaacaacatgaaa
 27786657

Query: 6947 acaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgac
 7006
 |||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 27786658 acaaggcaagtgcacttttttagaatttaccacaatcacaccacctttcatccagcttgat
 27786717

Query: 7007 catgaaatttct 7018
 |||||||
 Sbjct: 27786718 tgtgaaatttct 27786729

Score = 111 bits (56), Expect = 2e-21
 Identities = 128/152 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||| || | ||||||| ||||||| ||||| || ||||||| |||||||
 Sbjct: 33867015 aaaattagttatcacaaaatttattatttaaatttacatgtgcattaaatatacattaga
 33866956

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||||| ||||||| || | | ||||| ||||||| ||||||| ||||||| |||||||
 Sbjct: 33866955 aatttttaattgttatatataataacattatttattttataatataattggcctattagcta
 33866896

Query: 5237 agttggtagagcattatgttaataatgtgaa 5268
 ||||| ||||||| || ||||||| |||||
 Sbjct: 33866895 agttgattagagcgttggttaataatctgaa 33866864

Score = 111 bits (56), Expect = 2e-21
 Identities = 95/108 (87%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacatagga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 37025133 aaaattaattattacaaaatctattaattaaatttacatgcgcattaaatatatagga
 37025192

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 37025193 aatttttagtggttacatatagcgatattaactattttataacataattg 37025240

Score = 109 bits (55), Expect = 8e-21
 Identities = 111/129 (86%), Gaps = 3/129 (2%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacatagga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 4416074 aaaattaattgtaacaaaatttattatttaaatttacatgcgcattaaatatatacatgaa
 4416015

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 4416014 aatttttagtggttatgtata---acattatttattttataacgtaattagtttattagttt
 4415958

Query: 5237 agttgggta 5245
 |||||
 Sbjct: 4415957 agttgggta 4415949

Score = 109 bits (55), Expect = 8e-21
 Identities = 115/135 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacatagga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 39387405 aaaattaattgtcacaaaatttattattttaatttatatgcacattaaatatatacatgaa
 39387464

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Query: 5241 ggtagagcattatgtaataa 5262

```
Query: 5245      a 5245
          |
Sbjct: 40499131 a 40499131
```

Score = 105 bits (53), Expect = 1e-19
 Identities = 131/157 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 ||||| ||| | | ||||| ||||| || | | ||||| | |||
 Sbjct: 44388093 aaaattagttgtcatagaatttattatgtaaatttatattatattaaatatataataga
 44388034

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || | | ||||| ||||| ||||| || | ||||| ||
 Sbjct: 44388033 aatttttagtattatatataacgacattaattattttataataataatctattagttc
 44387974

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273
 ||||| ||||| ||||| || |||||
 Sbjct: 44387973 ggtaggttagagtggttatgttaataatctggaagtca 44387937

Score = 105 bits (53), Expect = 1e-19
 Identities = 132/157 (84%), Gaps = 1/157 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 ||||| ||||| | | ||||| ||||| ||||| || | || ||||| |||||
 Sbjct: 48118733 aaaattaattgtcataaaaatttattatttaaatttaca-gtgcattaaataacattaga
 48118791

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| ||| || | ||||| ||||| ||||| || | || |||||
 Sbjct: 48118792 aatttttagtggtttatataacaacattatttattttataataataattggtctataagttc
 48118851

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273
 ||||| ||||| | ||||| ||||| ||||| |||||
 Sbjct: 48118852 agttgattagagtttcatgttaataaacttgaaagtca 48118888

Score = 103 bits (52), Expect = 5e-19
 Identities = 112/132 (84%)

Strand = Plus / Minus

Query: 5131 caaaatattattatctaaatttgcacataaataacattagaaatatttagtggtat
 5190

Sbjct: 3261495 caaaatattattatgtaaacttatatgtatattaaataacattaaaaatatttagtggtat
 3261436

Query: 5191 atttagtgaaattaattattttataacataattgatgtattagttcagttggttagagca
 5250

Sbjct: 3261435 atataatgatattaattattttttaataataatttattagttcagttgattaaagta
 3261376

Query: 5251 ttatgttaataa 5262
 Sbjct: 3261375 ttgtgttaataa 3261364

Score = 101 bits (51), Expect = 2e-18
 Identities = 75/83 (90%)
 Strand = Plus / Plus

Query: 6934 caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
 6993

Sbjct: 27383399 caacaacatgagaacaaggcatgtgcactttttggaatttgccacagtcacacaatcttt
 27383458

Query: 6994 catctagcttgaccatgaaattt 7016
 Sbjct: 27383459 catctagcctgaccatgaaattt 27383481

Score = 101 bits (51), Expect = 2e-18
 Identities = 160/195 (82%), Gaps = 1/195 (0%)
 Strand = Plus / Minus

Query: 7046 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
 7105

Sbjct: 29919488 attgtctcttggaaccaagaatcgatgtcgcattgaactcaagaacaatgtaagt
 29919429

Query: 7106 tttgcctttttctgtatgtctttcatagccttggttaataacttttgataaaacttcacca
 7165

Sbjct: 40097505 aattttattgttatgtataacaacataaatttattttataatgtaattaactcattagctc
40097446


```
Query: 5013      aataatTTTtaataaattTTTTtatgaataaataaaaggTTTTtattcttaaatttgcttga
5072            |||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 47284499 aataatTTTtaataaaactTTTTtatgagtaaataaaaggTTTTtattcttaaatttatTTta
47284558
```

Query: 5073 gccctctcaagtccttga 5090
 | ||| |||||
 Sbjct: 47284559 gacctttcaagtccttga 47284576

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 49/49 (100%)
 Strand = Plus / Plus

Query: 1892 ttctctacaataggcgctactccaaccctctctctaataagcttcgtttc 1940
 |||||
 Sbjct: 28102764 ttctctacaataggcgctactccaaccctctctctaataagcttcgtttc 28102812

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 258/323 (79%), Gaps = 6/323 (1%)
 Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttggtgtgtg
 6737
 |||||
 Sbjct: 29919854 atgcgacacatgaaacatcgctttgggttgatttgggttctagg-tatccatttcggtgtgg
 29919796

Query: 6738 atacgagaggagacatgacaacctttagaattttcttttcatttttgggttggggcaaatt
 6797
 |||||
 Sbjct: 29919795 atacgagaggagacaaaccgacccttagaattttattttcttttctaggttgggataa-tt
 29919737

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
 6857
 |||||
 Sbjct: 29919736 attggttgtgacatgatgactaacacacttcggtgcataattctccaaacaatcctttg
 29919677

Query: 6858 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
 6917
 |||
 Sbjct: 29919676 tatacattggagacactttccaacgtatacacatgatatatgtagtttttgtactcatgg
 29919617

Query: 6918 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
 6974
 |||

Sbjct: 29919616 tgaacatgcttataagcagcaacaatatgagagcaagacaggtgca-attttggaatttg
 29919558

Query: 6975 tcacagtcacactacctttcatc 6997
 ||||| ||| || |||||
 Sbjct: 29919557 ccacagtcgcaccacttttcatc 29919535

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 96/112 (85%)
 Strand = Plus / Minus

Query: 7514 aaaacttgattcaaggttcattgtatcatcgaggtattcacccaaaccctccaaattcaa
 7573
 ||||| ||||||||||||||| ||||||||||| | || |||||||||||||
 Sbjct: 2720448 aaaactcgattcaaggttcattgcttcatcgaggtatttataaaaccctccaaattcaa
 2720389

Query: 7574 agagcttgcagaaactgggtgggtgtgcatatgtttatgtgggtgtgtct 7625
 |||| | |||||| ||||||| || || ||||| || |||||||||
 Sbjct: 2720388 agagttggcagaaattgggtgggtggatgcgcacatgtttgtgtaggtgtgtct 2720337

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 94/108 (87%), Gaps = 1/108 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 ||||||||||||||||||| || ||||||| | | |||||||||||||
 Sbjct: 31253718 aaaattaattggttacaaaatttaccatgtaaatttata-gtgtattaaatatacattaga
 31253660

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224
 ||||||| ||||| ||| || |||||||||||||||||||||
 Sbjct: 31253659 aatttttagtattatatatagcgacattaattattttataacataattg 31253612

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 94/108 (87%), Gaps = 1/108 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 |||||||||||| | |||| |||||| |||||| |||| | |||||||||||||

Sbjct: 44408410 aaaattaattgtaataaaaaattattattttaaatattacatgcgcattaaatatacattaga
44408469

Query: 5177 aattt-tagtggttatatttagtgaaattaattattttataacataatt 5223
||||| |||||||||||| || | ||| ||||||||||||||||
Sbjct: 44408470 aatttgtagtggttatatatagcaacattctttattttataacataatt 44408517

Score = 93.7 bits (47), Expect = 5e-16
Identities = 110/131 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaaatttattatctaaatttgcacataaaatatacattaga
5176
||||||| | |||||||||||||| ||||| ||| || ||||||||||||||||
Sbjct: 3878832 aaaattaattatcacaaaaatttattattttaaatattacatgcgcattaaatatacattaga
3878773

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataaattgatgtattagttc
5236
||||||| ||| | || | |||| |||||||||| ||||| ||| |||
Sbjct: 3878772 aatttttagtcttacgtataacaacattatttattttataatgtaattgattcattaattc
3878713

Query: 5237 agttgggttaga 5247
| |||||||
Sbjct: 3878712 aattgggttaga 3878702

Score = 93.7 bits (47), Expect = 5e-16
Identities = 110/131 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||||||||||||||||||||||||||||| || ||| | ||||||||||||||||
Sbjct: 8631668 aaaattaattggttacaaaaatttattatctaaacttatatgtgtattaaatatacattaga
8631727

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataaattgatgtattagttc
5236
||||||| ||||| || | |||||| ||| ||||| ||||| ||||| ||
Sbjct: 8631728 aatttttagtattatatataagaacgttaattaatttttaacatcattgacttattagctc
8631787

Query: 5237 agttgggttaga 5247

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 41141994 aaaattaattggttacaaaatttattatgtaaaattatatgtgtattaaatatacattaga
41142053

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 41142054 aatttttagtggttatatata-tgacattaat--ttttttaacataatttgtctattagctt
41142110

Query: 5237 agttggtagagcattatgttaataa 5262

| ||| ||||| ||||| |||||
Sbjct: 41142111 aattgattagagcgttatgtcaataa 41142136

Score = 91.7 bits (46), Expect = 2e-15
Identities = 67/74 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 8979437 aaaattaattgtcacaaaatttattatttaaatttatatgcgcatataacattaga
8979378

Query: 5177 aatttttagtggttat 5190

|||||
Sbjct: 8979377 gatttttagtggttat 8979364

Score = 91.7 bits (46), Expect = 2e-15
Identities = 64/70 (91%)
Strand = Plus / Plus

Query: 5121 ttaattggttacaaaatttattatctaaatttgcacataaatatacattagaaatt
5180

|||||
Sbjct: 8979605 ttaattgtcacaaaatttattatttaaatttacatgcgcatataatataattagaaatt
8979664

Query: 5181 ttagtggttat 5190

|||||
Sbjct: 8979665 ttagtggttat 8979674

Score = 91.7 bits (46), Expect = 2e-15
Identities = 70/78 (89%)
Strand = Plus / Plus

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggaac
5296
|||||
Sbjct: 8979732 agttgggtagagcggttggttaataatctgaaagttacaagttcaattcttgattggatt
8979791

Query: 5297 attaatTTTaaattaatt 5314
|||||
Sbjct: 8979792 attaatTTTaaattaatt 8979809

Score = 91.7 bits (46), Expect = 2e-15
Identities = 79/90 (87%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtggttatTTtagtgaaattaattatTTTataacataa
5221
|||||
Sbjct: 37025085 taaatatacattagaaatTTtagtggttatcgcacattaattatTTTataacataa
37025026

Query: 5222 ttgatgtattagttcagttgggtagagcat 5251
||| |
Sbjct: 37025025 ttggtctattaatctagttgggttatagcat 37024996

Score = 91.7 bits (46), Expect = 2e-15
Identities = 70/78 (89%)
Strand = Plus / Minus

Query: 5014 ataattTTaataaattatTTtatgaataaataaaaggTTTTattctTaaatttgcttgag
5073
|||||
Sbjct: 41030895 ataattTTaataaactatTTtatgagtaataaaatTTTTattctTaaatttgctttag
41030836

Query: 5074 ccctctcaagtccttgag 5091
|||||
Sbjct: 41030835 gcctctcaaactcttgag 41030818

Score = 89.7 bits (45), Expect = 8e-15
Identities = 51/53 (96%)
Strand = Plus / Plus

Query: 6421 agagttgaaatcctttgtatTTTTATTTTATTtgattattataatacataatt 6473
|||||
Sbjct: 27382909 agagttgaaatcctttgtatTTTcattttatttgattattaaaatacataatt
27382961

Score = 89.7 bits (45), Expect = 8e-15
Identities = 108/129 (83%)
Strand = Plus / Plus

Query: 5120 attaattggtacaaaatttattatctaaatttgcattgcacaataaatatacattagaaat
5179
|||||
Sbjct: 35156613 attaattggtacaaaatttattatgtaaacttatatgtgtattaaatatacattaaaaaa
35156672

Query: 5180 tttagtgttatatttagtgaaattaattattttataacataattgatgtattagttcagt
5239
||||
Sbjct: 35156673 tttattgttatctatagcgacattatttattttttaacataattaatctattagtttagt
35156732

Query: 5240 tgggttagag 5248
||
Sbjct: 35156733 tgatttagag 35156741

Score = 89.7 bits (45), Expect = 8e-15
Identities = 93/109 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||
Sbjct: 44720404 aaaattaattaccacaaaatttattatataaaattacattgtacaataaatatacattaaa
44720345

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
|||||
Sbjct: 44720344 aatttttaattacatataataacattaattattttataatataattga 44720296

Score = 87.7 bits (44), Expect = 3e-14
Identities = 65/72 (90%)

Query: 7576 agcttgcagaaactggtggtggttgtgcatatgtttatgtggg 7618

Sbjct: 36246061 agctgctagaaattgggtgatggatgtgcacatgtttgtgtggg 36246019

Score = 85.7 bits (43), Expect = 1e-13
Identities = 46/47 (97%)
Strand = Plus / Minus

Query: 1991 tccgctacacctactttattctcatgttggtcttgaccgccaaca 2037
|||||
Sbjct: 5258802 tccgctacacctactttattcttatgttggtcttgaccgccaaca 5258756

Score = 85.7 bits (43), Expect = 1e-13
Identities = 106/127 (83%)
Strand = Plus / Plus

Query: 6685 acatggaacatcattttgggtttacctgattccttgatatccattttgggtgtgtatacgag
6744
|||||
Sbjct: 27786396 acatggaacatcattttgggtgacctgattccttgaatatttatttcagtgtgtatatgag
27786455

Query: 6745 aggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattccttggt
6804
|||||
Sbjct: 27786456 aggagacatgacgatccctagaatttctttccttcttgggtcagggcagatttttgact
27786515

Query: 6805 tgtgaca 6811
|||||
Sbjct: 27786516 cgtgaca 27786522

Score = 85.7 bits (43), Expect = 1e-13
Identities = 137/167 (82%), Gaps = 1/167 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 33535463 aaaattaattgtcaaaaaatttataatgtaaatttacatttgcattaaatatacattata
33535522

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaaatatacattaga
5176

Sbjct: 20470437 |||||
20470494

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattag
5233

Sbjct: 20470495 |||||
20470551

Score = 83.8 bits (42), Expect = 5e-13
Identities = 42/42 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaac 1684
Sbjct: 28102428 aacgccttatcccactaggtggggctcggctacatggatcaac 28102469

Score = 83.8 bits (42), Expect = 5e-13
Identities = 151/186 (81%), Gaps = 1/186 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

Sbjct: 40332196 |||||
40332137

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacat-aattgatgtattagtt
5235

Sbjct: 40332136 |||||
40332077

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295

Sbjct: 40332076 |||||
40332017

Query: 5296 cattaa 5301
Sbjct: 40332016 cattaa 40332011

Score = 79.8 bits (40), Expect = 7e-12
Identities = 67/76 (88%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTTtagtgTtatatTTtagtgaaattaattatTTTataacataa
5221

|||||

Sbjct: 338733 taaatatacattaaaaatTTTtagtgTtatatataataatattaattatTTTacaacataa
338792

Query: 5222 ttgatgtattagttca 5237

|| || ||||| ||||

Sbjct: 338793 ttaatttattaattca 338808

Score = 79.8 bits (40), Expect = 7e-12
Identities = 72/80 (90%), Gaps = 2/80 (2%)
Strand = Plus / Minus

Query: 7377 ttggccttaaaacacacatgacaaatTTTTtattataaaacaaacacccagtgatataa
7436

|||||

Sbjct: 2639116 ttggccttaaaacatacatggcgaaT-tTTTTattataaaacaa-cactcagtaatacaa
2639059

Query: 7437 caatgaacaacacacatgac 7456

|||||

Sbjct: 2639058 caatgaacaacaaacatgac 2639039

Score = 79.8 bits (40), Expect = 7e-12
Identities = 46/48 (95%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggTcggtacatggatcaacttccgc 1690

|||||

Sbjct: 5258845 aacgccttatcccactaggtggggTcggtacatagattaacttccgc 5258798

Score = 79.8 bits (40), Expect = 7e-12
Identities = 77/88 (87%), Gaps = 1/88 (1%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaatTTTaaaatacaaaacaatatggcataa
6639

|||||

Sbjct: 28172846 aaaatattttaaatttgaaacaatacaacaaatctTTT-aaatacaaagagtgtgacataa
28172788

Query: 6640 aattaatggttggtggcctgagcctacac 6667
 | ||||| ||||| ||||| |||||
Sbjct: 28172787 atttaatggttggtggcctgagcctacac 28172760

Score = 79.8 bits (40), Expect = 7e-12
Identities = 97/116 (83%)
Strand = Plus / Plus

Query: 5119 aattaattgttacaaaatttattatctaaatttgcacataaataacattagaaa
5178
 ||||| |||| | ||||| ||||| ||||| ||| | | ||||| ||||| |||
Sbjct: 40895927 aattaatagttataaaaatttattatataaaatttatatgtatattaaatatattaaaaa
40895986

Query: 5179 ttttagtggttatatttagtgaaattaattattttataacataattgatgtattagt 5234
 ||||| ||||| || ||| ||||| ||||| ||| ||||| || |||||
Sbjct: 40895987 atttagtattatatataatgatattaattatttttaataataatattagt
40896042

Score = 77.8 bits (39), Expect = 3e-11
Identities = 75/87 (86%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaattttaaaatacaacaatatggcataa
6639
 ||||| ||||| ||||| ||||| ||| | ||||| ||||| |||||
Sbjct: 19788467 aaaatattttaaatttgaattaatacaacaaaaattttacagatacaatcaatatggcatat
19788408

Query: 6640 aattaatggttggtggcctgagcctaca 6666
 | | | ||||| ||| |||||
Sbjct: 19788407 attcaaagttggtggcctgaacctaca 19788381

Score = 77.8 bits (39), Expect = 3e-11
Identities = 57/63 (90%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataaataacattagaaatttttagtggtta
5189
 ||||| ||||| ||||| ||| ||| ||||| ||||| ||||| |||||
Sbjct: 29921919 acaaaatttattatgttaaatttacatgtacattaaataataaattagaaatttttagtggtga
29921978

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacatag
 5175
 ||||| ||||| | ||||||||||||||| ||||||| |||| | | ||||||||| |||||
 Sbjct: 1333261 aaaaaataattatcacaaaatttattatgtaaatttacatgtatattaaatataaattaa
 1333202

Query: 5176 aaatttttagtggttatat 5192
 |||||||||||||||||
 Sbjct: 1333201 aaatttttagtggttatat 1333185

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 91/109 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacataga
 5176
 ||||||||| | ||||||||||| || || ||||| ||| | ||||||||| |||||
 Sbjct: 3024629 aaaattaattatcacaaaatttataatgtatatttacatattgtattaaatatattaga
 3024688

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 ||||||||| ||||| || | |||||||||||||||||||||
 Sbjct: 3024689 aatttttagtattatatataacaatattaattattttataacataattga 3024737

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 85/101 (84%)
 Strand = Plus / Minus

Query: 5162 taaatatacatagaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 ||||||||||||||||||||||||||| ||||| || || ||||| ||||||||||||| ||
 Sbjct: 9059640 taaatatacatagaaatttttagtattatatatatcgatattattttattttataacacaa
 9059581

Query: 5222 ttgatgtattagttcagttggtagagcattatggttaataa 5262
 | || ||||| || || || ||||| |||||||||
 Sbjct: 9059580 taaatctattaactcacttgattagaaaattatggttaataa 9059540

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 243/310 (78%), Gaps = 5/310 (1%)
 Strand = Plus / Minus

Query: 6711 gattcttggatatccattttggtgtgtatacgagaggagacatgacaacctttagaattt
6770
||||| | ||||| ||| ||| ||||| ||||| ||| | ||
Sbjct: 19788314 gattctcgaatatccatttcagtgtgcatatgagtggagacaggacaacccttagtactt
19788255

Query: 6771 cttttcatttttgggttggggcaaattcttggcttgtgacatggtgaccaacatgcttca
6830
||||| ||| ||||| ||| | || ||| ||||| ||| ||| | |||||
Sbjct: 19788254 cttttcttttctgggttaggggagatcattagctcgtgacacggtggccaataggcttcg
19788195

Query: 6831 ttgcacaatttcccaagtaatcatttgtacatggttatagatacttttcagcgtatacaca
6890
||||||| ||| ||||| | | | ||||| ||| ||| | |||||
Sbjct: 19788194 ttgcacaattcttcaaataatcctctacatatggttagagacacttcccaacgtatacatg
19788135

Query: 6891 agatgtatgtagttcctatactcatggtgagcatgcttataaaca---acaacatgagaa
6947
||||||| ||| ||||| | | ||||| ||| ||| |||||
Sbjct: 19788134 ggatgtatgtagtttctgtactcatgattaacatgcttgcaagcagcaacaacatgagaa
19788075

Query: 6948 caaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgacc
7007
||| ||| ||| ||||| ||||| ||||| ||||| ||||| ||| |||||
Sbjct: 19788074 caaggcatatgcaacttttggaaatttgtcatgatcaca--acctttcatccatcctgacc
19788017

Query: 7008 atgaaatttc 7017
|||||||
Sbjct: 19788016 atgaaatttc 19788007

Score = 73.8 bits (37), Expect = 5e-10
Identities = 55/61 (90%)
Strand = Plus / Plus

Query: 6316 ttaattgtctatatttgtgttctgtttaaattgaaaacaatattatttttcatatgttgt
6375
||||| ||||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27382627 ttaattatctatatttatgttttgtttaaactgaaaataatattattttgcatatgttgt
27382686

Query: 6376 t 6376
|

Sbjct: 27382687 t 27382687

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 71/81 (87%), Gaps = 1/81 (1%)
 Strand = Plus / Minus

Query: 6488 ttgaaattaaaaa-atatatatttaactgacaagttgacttgaactaaaatatttaaatt
 6546

|||||
 Sbjct: 28030954 ttgaaattaaaaacaaaaatgatgaaccaacaaattgaattgaactaaaatatttaaatt
 28030895

Query: 6547 acaaaatagatatgaaattac 6567
 |||||
 Sbjct: 28030894 acaaaatatataaaaattac 28030874

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 128/155 (82%), Gaps = 5/155 (3%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 47472559 aaaattaattattataaaaatttattatataaaaattacatgtatattaaatatattaga
 47472500

Query: 5177 aatttttagtggttatat---ttagtgaaattaattattttataacataattgatgtattag
 5233

|||||
 Sbjct: 47472499 aatttttagtattatatattattgatattaa-tatttt-taatataattgattattaa
 47472442

Query: 5234 ttcagttggtagagcattatgttaataatgtgaa 5268
 ||| ||| ||||| |||| || |||||
 Sbjct: 47472441 ctcaattgattagagtggttatattcataatgtgaa 47472407

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 92/109 (84%), Gaps = 1/109 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

|||||
Sbjct: 47587325 aaaattaattattacaaaatttattatataaaatttatatgtatattaaatatatattaa
47587384

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
|| |||| |||| ||| || || |||||
Sbjct: 47587385 aaatttaatgttttatata-cgatattaattattttataaatataattga 47587432

Score = 71.9 bits (36), Expect = 2e-09
Identities = 102/124 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 3951015 aaaattaattatgacaaaatttattatgtaaaatttatatgtgtattaaatatatattaa
3950956

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
| |||||
Sbjct: 3950955 aatttttagtggttatatataacaatattaattattttataacataaattaacctattaattc
3950896

Query: 5237 agtt 5240
|||
Sbjct: 3950895 agtt 3950892

Score = 71.9 bits (36), Expect = 2e-09
Identities = 103/124 (83%), Gaps = 1/124 (0%)
Strand = Plus / Plus

Query: 5204 aattattttataacata-attgatgtattagttcagttgggttagagcattatgttaataa
5262
|||||
Sbjct: 5043804 aattagtttataacatgtattgggtctattagctcagttaggttagagcggttctgttaatag
5043863

Query: 5263 tgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaattaatttgtaaaat
5322
|||||
Sbjct: 5043864 cactgaaagtcacatgttcaacttttgcattgggtcattaatttttaaattaatttcgtaaaat
5043923

Query: 5323 atat 5326
 ||||
Sbjct: 5043924 atat 5043927

Score = 71.9 bits (36), Expect = 2e-09
Identities = 78/92 (84%)
Strand = Plus / Minus

Query: 6682 gacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatac
6741
 ||||||| ||||||| ||||||| || | ||||||||||| ||||||| |||| ||||
Sbjct: 28172723 gacacatagaacatcgctttggttggcccggttcttggatattcattttgatgtggatac
28172664

Query: 6742 gagaggagacatgacaacctttagaatttctt 6773
 |||||||||| | ||||| ||||||||||||
Sbjct: 28172663 gagaggagaccagtcaacccttagaatttctt 28172632

Score = 71.9 bits (36), Expect = 2e-09
Identities = 63/72 (87%)
Strand = Plus / Plus

Query: 5145 taaatttgcacatgcacaataaatatacattagaaattttagtggttatatttagtgaaatta
5204
 ||||||| ||||| || ||||||||||||||||||| ||||||| || | | ||||
Sbjct: 41374553 taaatttacatgcgcattaaatatacattagaaatttactggttatataataatatta
41374612

Query: 5205 attattttataa 5216
 |||||||||||
Sbjct: 41374613 tttattttataa 41374624

Score = 69.9 bits (35), Expect = 7e-09
Identities = 74/87 (85%)
Strand = Plus / Minus

Query: 6581 aaatattttaatttgaaataatacaacaaaaatttttaaatacaaacatattggcataaa
6640
 ||||||||||||||||| | ||||||||| |||| ||||| || | ||||||| |||||||
Sbjct: 2724271 aaatattttaatttgaaacagtacaacaaatttttttaaataagaaggaatatgacataaa
2724212

Query: 6641 attaatggttggtggcctgagcctacac 6667
 | || ||||| ||||| |||||
Sbjct: 2724211 ttcaacgttggtggcctgagcctacac 2724185

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Minus

Query: 3151 ttatgctataaattgaaagagctgcaattagttttaatcatcgagccgtgcgataagcac
3210
 ||||| || ||||| ||||| ||||| || ||||| |||||
Sbjct: 8031381 ttatgctataaaatggaagagctgcatttagttttaagcacggagccgtgtgataagcac
8031322

Query: 3211 aga 3213
 |||
Sbjct: 8031321 aga 8031319

Score = 69.9 bits (35), Expect = 7e-09
Identities = 35/35 (100%)
Strand = Plus / Minus

Query: 3271 tttttgtaacagggctcttcaaaagaggaccctgca 3305
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8047033 tttttgtaacagggctcttcaaaagaggaccctgca 8046999

Score = 69.9 bits (35), Expect = 7e-09
Identities = 76/89 (85%), Gaps = 3/89 (3%)
Strand = Plus / Plus

Query: 6872 acttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata
6931
 ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29971205 actttccaacgtatacaaaagatgtatgtaattcatgtactcatgatgagcatgcttaca
29971264

Query: 6932 ---aacaacaacatgagaacaaaacatgt 6957
 || ||||| ||||| |||||
Sbjct: 29971265 agcaataacaacatgagaacaagacatgt 29971293

Score = 69.9 bits (35), Expect = 7e-09
Identities = 47/51 (92%)
Strand = Plus / Plus

Query: 6583 atattttaaatgtgaaataataacaacaaaaattttaaaatacaaacaaatg 6633
 |||||
Sbjct: 36248059 atattttaaatgtgaaacaatacaaaaaaattttaaatacaagaatg 36248109

Score = 69.9 bits (35), Expect = 7e-09
Identities = 65/75 (86%)
Strand = Plus / Plus

Query: 5013 aataatTTTaataaattatTTTatgaataaataaaaggTTTTattcttaaatttgcttga
5072
 |||||
Sbjct: 38851663 aataatTTTaataaactatTTTatgagtaaataaaaaatctcattTTTaaatttgcttta
38851722

Query: 5073 ggcctctcaagtcct 5087
 | |||||
Sbjct: 38851723 ggcctcttaagtcct 38851737

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataacatacattagaaatttttagtggtta
5189
 |||||
Sbjct: 40664914 acaaaaatttattatgtaaatttacatatacattaaatataaattagaaattcttagtggtta
40664973

Query: 5190 tat 5192
 |||
Sbjct: 40664974 tat 40664976

Score = 69.9 bits (35), Expect = 7e-09
Identities = 125/155 (80%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataacatacattaga
5176

|||||
Sbjct: 40974315 aaaattaattgttataaaaatttattatgtaaactaatatgtgcattaaataaaaattaaa
40974374

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 40974375 aatttttagttttatatataacgacattaatcattttttaacataattgacctattagctt
40974434

Query: 5237 agttggtagagcattatgttaataatgtgaaagt 5271
| | | | |
Sbjct: 40974435 aatttgttaaagtgttgatttaataatgtgaaagt 40974469

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcagcacaataaatatacattagaaatttttagtggtta
5189
|||||
Sbjct: 47036385 acaaaatttattatgttaaatttacatatacattaaatataaaatttttagtggtta
47036326

Query: 5190 tat 5192
| | |
Sbjct: 47036325 tat 47036323

Score = 67.9 bits (34), Expect = 3e-08
Identities = 52/58 (89%)
Strand = Plus / Minus

Query: 7309 ccaccatcccatgcgagagtcacttttcttggtggaatcttcctaagctaattaattg
7366
|||||
Sbjct: 29919213 ccaccatcccatgcgagagtcatttttcttgcggaatctcgatgagctaattaattg
29919156

Score = 67.9 bits (34), Expect = 3e-08
Identities = 65/74 (87%), Gaps = 1/74 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcaca-ataaatatacatag
5175
 |||||
Sbjct: 36947128 aaaattaattgtcacaaaatttattatttaaatttatatgcacatttaaatacatataa
36947069

Query: 5176 aaatttttagtggtta 5189
 ||| ||| |||||
Sbjct: 36947068 aaatttttggttggtta 36947055

Score = 65.9 bits (33), Expect = 1e-07
Identities = 64/73 (87%), Gaps = 1/73 (1%)
Strand = Plus / Minus

Query: 6488 ttgaaattaaaa-aatatatatttaactgacaagttgacttgaactaaaatatttaaatt
6546
 |||||
Sbjct: 29920107 ttgaaattaaaagaaaacatatgtaaccaacaagttgaattgaactaaaatatttaaatt
29920048

Query: 6547 acaaaatagatat 6559
 |||| ||| |||||
Sbjct: 29920047 acaatatatatat 29920035

Score = 65.9 bits (33), Expect = 1e-07
Identities = 36/37 (97%)
Strand = Plus / Minus

Query: 5294 atcattaattttaaattaatttgtaaaatatatattttt 5330
 |||||
Sbjct: 35156342 atcattaattttaaattatttttgtaaaatatatattttt 35156306

Score = 65.9 bits (33), Expect = 1e-07
Identities = 45/49 (91%)
Strand = Plus / Plus

Query: 5293 gatcattaattttaaattaatttgtaaaatatatatttttgaaaaaaaaat 5341
 |||||
Sbjct: 40665041 gatcattaattttaaattaatcgtaaaattatatatttttgaaacaaaaat 40665089

Score = 65.9 bits (33), Expect = 1e-07
Identities = 39/41 (95%)
Strand = Plus / Plus

Query: 5290 ttggatcattaattttaaaattaatttgtaaaatatatatttt 5330
 |||||
Sbjct: 41374699 ttggatcattaattttaaaattaattcgtaaaacatatatttt 41374739

Score = 63.9 bits (32), Expect = 4e-07
Identities = 65/76 (85%)
Strand = Plus / Plus

Query: 6600 aatacaacaaaaatttttaaatacaaacatatggcataaaattaatgttggtggcctga
6659
 ||| ||||| ||||| ||||| ||||| ||| ||||| |||
Sbjct: 27383043 aatagaacaaaatttttaaatacaagaatatgacataaatctaacattggtggcctga
27383102

Query: 6660 gcctacacaatggggg 6675
 ||||| |||||
Sbjct: 27383103 gcctacatagtggggg 27383118

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Minus

Query: 6431 tcctttgtatttttattttatttgattattataatacata 6470
 ||||| ||||| ||||| ||||| |||||
Sbjct: 29920148 tcctttgtattttcattttatttgattattaaaatacata 29920109

Score = 63.9 bits (32), Expect = 4e-07
Identities = 35/36 (97%)
Strand = Plus / Plus

Query: 5013 aataattttaataaattattttatgaataaataaaa 5048
 ||||| ||||| ||||| ||||| |||||
Sbjct: 33830090 aataattttaataaattattttataaataaataaaa 33830125

Score = 63.9 bits (32), Expect = 4e-07
Identities = 62/72 (86%)

Strand = Plus / Plus

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235
|||||
Sbjct: 44747570 aaatTTtagtgTtacatataacaacattaattatTTTataacataattgatttgTtagct
44747629

Query: 5236 cagttggTtaga 5247
|||||
Sbjct: 44747630 cagttagTtaga 44747641

Score = 62.0 bits (31), Expect = 2e-06
Identities = 88/107 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgTtacaaaaTTtattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 1810919 aaaattaattatcacaaaaTTtattatataaaTTTataagggtattaaatatatattaaa
1810860

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataatt 5223
|
Sbjct: 1810859 atTTTtaattatataataacgatattaattatTTTataacataatt 1810813

Score = 62.0 bits (31), Expect = 2e-06
Identities = 61/71 (85%)
Strand = Plus / Plus

Query: 6682 gacacatggaacatcattTTtgGTTTacttgattcttgGatatccattTTtggtgtgtatac
6741
|||||
Sbjct: 29971025 gacacacggaacattgctTTtgGTTgacttgattctcgaatatccattTCggtgtggatac
29971084

Query: 6742 gagaggagaca 6752
|||||
Sbjct: 29971085 gagaggagaca 29971095

Score = 62.0 bits (31), Expect = 2e-06
Identities = 97/115 (84%), Gaps = 3/115 (2%)

```
Query: 7166      aatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacctag
7223           ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 2723885 gatgcaagcattgctgcagctgctctccctcttttgttgaacaatgcattacacctag
2723828
```

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 30/30 (100%)
 Strand = Plus / Minus

Query: 3443 agagccttgccatagttaatgtatggttca 3472
 |||||
 Sbjct: 8046610 agagccttgccatagttaatgtatggttca 8046581

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 81/98 (82%), Gaps = 10/98 (10%)
 Strand = Plus / Plus

Query: 6340 tttaaattgaaaacaatattatcttcatatggttgtaattcttaatttcttatgcatat
 6399
 |||||
 Sbjct: 28030112 tttaaattgaaaataattttatcttcatatggttgtaattttt-----tgcatat
 28030162

Query: 6400 tttatgttttatcatttttt-aagagttgaaatccttt 6436
 |||
 Sbjct: 28030163 tttttgttttatcattttttgaagagttggaatccttt 28030200

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 69/82 (84%)
 Strand = Plus / Plus

Query: 7674 aatatagaaaacatagtaattatctcctcatcatcttgcaacttgcatgccctgtactga
 7733
 ||||
 Sbjct: 31005890 aataaagaaaacatagtggttatatcctcatcatcttgcaacttgcatgccctattgtaa
 31005949

Query: 7734 aaacaatcaccaacaaatgata 7755
 |||||
 Sbjct: 31005950 aaacaatcactagcaaagata 31005971

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 54/62 (87%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTTtagtgTTatatttagtgaaattaattattttataacataa
5221
||||||| ||| |||||||||||||||| | | ||||||||||| |||||||
Sbjct: 35156473 taaatataattaaaaatTTTtagtgTTatataaacaatattaattattttttaacataa
35156414

Query: 5222 tt 5223
||
Sbjct: 35156413 tt 35156412

Score = 60.0 bits (30), Expect = 7e-06
Identities = 75/90 (83%)
Strand = Plus / Plus

Query: 7522 attcaaggTtcattgtatcatcgaggTattcacccaaaccctccaaattcaaagagcttg
7581
||||||| |||| | ||| | ||||| ||||||| | ||||| ||||| |||
Sbjct: 37169293 attcaaggTtcattgcttaatcaagatattcatccaaaccatcaaaattgaaagaggttg
37169352

Query: 7582 cagaaactggTggTggTgtgcatatgttt 7611
||||| |||| | | ||||| |||||
Sbjct: 37169353 cagaaattggTgatagatgtgcacatgttt 37169382

Score = 60.0 bits (30), Expect = 7e-06
Identities = 30/30 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggTggggTcggct 1672
||||||| |||||| |||||| |||||| |||||| ||||||
Sbjct: 37554496 aacgccttatccactaggTggggTcggct 37554525

Score = 60.0 bits (30), Expect = 7e-06
Identities = 82/98 (83%), Gaps = 1/98 (1%)
Strand = Plus / Minus

Query: 5256 ttaataatgtgaaagtcaaaagttcaattcttacttggaTcattaatttttaaattaattt
5315
||||||| | ||| | ||||| |||| | |||| | ||||||| ||||||| |
Sbjct: 45999051 ttaataatgcggaaggcacaagttcgattcctgcttgaaccattaatttttaaattaatc
45998992

Query: 5316 gtaaaatatatTTTTTgaaaaa-aaaattataaaaaaat 5352
 ||||| ||||||||| ||||| ||||||| |||||||
Sbjct: 45998991 gtaaattatatTTTTTaaaaagaaaattaagaaaaaat 45998954

Score = 60.0 bits (30), Expect = 7e-06
Identities = 59/68 (86%), Gaps = 3/68 (4%)
Strand = Plus / Plus

Query: 5276 agttcaattcttacttggatcattaatTTTaaattaatttgtaaaatatTTTTTgaaa
5335
 ||||||||||| ||| || ||||||||||||||||| ||||||| || |||| |||
Sbjct: 45999153 agttcaattcttgcttagaccattaatTTTaaattaatttgtaaatta---TTTTTaaa
45999209

Query: 5336 aaaaatta 5343
 |||||||
Sbjct: 45999210 aaaaatta 45999217

Score = 58.0 bits (29), Expect = 3e-05
Identities = 65/76 (85%), Gaps = 2/76 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 ||||||| ||||| ||||||||||||| ||||||| ||| | | |||||||||||||
Sbjct: 8631575 aaaattaactgttatataaaatttattatataaaattt--atgtgtatttaatacattaga
8631518

Query: 5177 aatttttagtggtatat 5192
 ||||||| |||||
Sbjct: 8631517 aatttttagtattatat 8631502

Score = 58.0 bits (29), Expect = 3e-05
Identities = 44/49 (89%)
Strand = Plus / Minus

Query: 7320 tgcgagagtccactTTTTcttTgtggaatcttcctaagctaattaattggt 7368
 ||||||||||| ||||| ||||||||| ||||||| |||||||||
Sbjct: 24228406 tgcgagagtccattTTTTctcatggaatcttcctaagccaattaattggt 24228358

Score = 58.0 bits (29), Expect = 3e-05
Identities = 36/37 (97%), Gaps = 1/37 (2%)
Strand = Plus / Plus

Query: 6406 ttttatcatttttt-aagagttgaaatcctttgtatt 6441
 |||||
Sbjct: 27382697 ttttatcattttttgaagagttgaaatcctttgtatt 27382733

Score = 58.0 bits (29), Expect = 3e-05
Identities = 50/57 (87%)
Strand = Plus / Minus

Query: 5277 gttcaattcttacttggatcattaattttaaattaatttgtaaaatatatTTTTgaa
5333
 |||||
Sbjct: 39122638 gttcgattcttacatgggccattaattttaaattaattcataaaaaatTTTTgaa
39122582

Score = 58.0 bits (29), Expect = 3e-05
Identities = 44/49 (89%)
Strand = Plus / Minus

Query: 5199 aaattaattatTTTtataacataattgatgtattagttcagttgggttaga 5247
 |||||
Sbjct: 43990054 aaattaattatTTTtaaataattgttttattagctcagttgggttaga 43990006

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 6431 tcctttgtatTTTtattttatttgattattataatacata 6470
 |||||
Sbjct: 36247872 tcctttgtatTTTaattttatttgactattaaaatacata 36247911

Score = 56.0 bits (28), Expect = 1e-04
Identities = 86/104 (82%), Gaps = 1/104 (0%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgttatTTtagtgaaattaattTTTtataacataa
5221

```

||||||| |||| ||||||||||||||||||| || || |||| ||| ||||||| ||||
Sbjct: 39600266 taaatataaattaaaaatttttagtggtatatataacgacattattta-tttataatataa
39600324
```

```

Query: 5222      ttgatgtattagttcagttgggttagagcattatgttaataatgt 5265
                | || ||||||||||||||| || ||| ||||| |||||||||
Sbjct: 39600325 tgtattttattagttcagttaatttgagtattataactaataatgt 39600368
```

Score = 56.0 bits (28), Expect = 1e-04
Identities = 43/48 (89%)
Strand = Plus / Plus

```

Query: 5228      tattagttcagttgggttagagcattatgttaataatgtgaaagtcaaa 5275
                ||||||| ||||||| ||||||| || || |||||||||||||||||
Sbjct: 48403206 tattagctcagttgattagagcgttgatgataataatgtgaaagtcaaa 48403253
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

```

Query: 6516      acaagttgacttgaactaaaatattttaaatt 6546
                ||||||||| |||||||||||||||||||
Sbjct: 28172863 acaagttgaattgaactaaaatattttaaatt 28172833
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 48/55 (87%)
Strand = Plus / Minus

```

Query: 5210      tttataacataattgatgtattagttcagttgggttagagcattatgttaataatg 5264
                ||||||||||||| | ||||||||||||||||||| ||||||| | |||||||
Sbjct: 29921237 tttataacataaatatgtctattagttcagttgggttgagcattttattaataatg
29921183
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Plus

```

Query: 6516      acaagttgacttgaactaaaatattttaaatt 6546
                ||||||||| |||||||||||||||||||
Sbjct: 29970884 acaagttgaattgaactaaaatattttaaatt 29970914
```

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 60/71 (84%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtgTTatatttagtgaaattaattattttataacataa
 5221
 ||||| |||| || |||| ||||| || | | ||||| ||||| ||||
 Sbjct: 42687625 taaatataatataaaatTTtaatgTTatatgtaataatattaattattttataatataa
 42687566

Query: 5222 ttgatgtatta 5232
 || || ||||
 Sbjct: 42687565 ttaatttatta 42687555

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 51/59 (86%)
 Strand = Plus / Plus

Query: 5174 agaaatTTtagtgTTatatttagtgaaattaattattttataacataattgatgtatta
 5232
 ||||| ||||| || | | ||||| ||||| ||||| ||||| |||||
 Sbjct: 42687733 agaaatTTtaatgTTatataataacaatattaattattttataacataattaatttatta
 42687791

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 66/79 (83%)
 Strand = Plus / Minus

Query: 5178 atTTtagtgTTatatttagtgaaattaattattttataacataattgatgtattagttca
 5237
 ||||| ||||| || | |||| ||||| ||||| ||||| ||||| ||||
 Sbjct: 47327081 atTTtagtgTTatataataacaatattattttattttataatataattgacctattagctca
 47327022

Query: 5238 gttgggtagagcattatgt 5256
 ||| |||| || |||||
 Sbjct: 47327021 gttagttaaagcggttatgt 47327003

Score = 52.0 bits (26), Expect = 0.002

Identities = 45/50 (90%), Gaps = 1/50 (2%)
Strand = Plus / Plus

Query: 5297 attaatTTTTaaattaatttGtaaaatata-tttttgaaaaaaaaattata 5345
 ||||| ||||| ||||| || ||||| ||||| |||||
Sbjct: 9060056 attaatTTTTaaagtaattcGtaaaacatatTTTTTTtaaaaaaaaaattata 9060105

Score = 52.0 bits (26), Expect = 0.002
Identities = 38/41 (92%), Gaps = 2/41 (4%)
Strand = Plus / Plus

Query: 6393 tgcataTTTTatgTTTTatcatttttt--aagagttgaaat 6431
 ||||| ||||| ||||| ||||| |||||
Sbjct: 29911544 tgcataTTTTatgTTTTatcatttttttgaagagttgaaat 29911584

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 5297 attaatTTTTaaattaatttGtaaaatatattttt 5330
 ||||| ||||| || ||||| |||||
Sbjct: 44628850 attaatTTTTaaattatttcGtaaaatatattttt 44628883

Score = 50.1 bits (25), Expect = 0.007
Identities = 44/49 (89%), Gaps = 1/49 (2%)
Strand = Plus / Minus

Query: 7431 atacaacaat-gaacaacacacatgacaactacaaatcattaaataata 7478
 ||||| || ||||| || ||||| ||||| |||||
Sbjct: 2720540 atacaacaattgaaaaacacacatgatgactacgaatcattaaataata 2720492

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 7265 tttcttgagtaccaaattaattaactcag 7293
 ||||| ||||| ||||| |||||
Sbjct: 2723793 tttcttgagtaccaaattaattgactcag 2723765

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggtacatggatca 1682
||||||| ||||||||| ||| |||||||||
Sbjct: 18018088 gccttatctcactaggtgaggttggtacatggatca 18018052

Score = 50.1 bits (25), Expect = 0.007
Identities = 52/61 (85%)
Strand = Plus / Plus

Query: 7179 ttgcgacttctctccccctttggttgaacaatgcattacacctagtaggttgatttta
7238
||||| ||||||||| |||| | ||||||| ||||||||| ||| |||||||||
Sbjct: 29971460 ttgcggttctctccctcttttgctgaacaacgcattacaccttagatatgttgatttta
29971519

Query: 7239 c 7239
|
Sbjct: 29971520 c 29971520

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Plus

Query: 1655 cactaggtggggctcggtacatggatcaa 1683
||||||| |||||||||
Sbjct: 38204565 cactaggtgggggttggtacatggatcaa 38204593

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaaa 5340
||||||| ||||||||| |||||
Sbjct: 39123203 attaatttgtaaaacatatatttttgaaagaaaaa 39123235

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcggctacatggat 1680
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40486244 cttatcccactaggtgaggttggtacatggat 40486212

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 6438 tatttttattttatttgattattataatacata 6470
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46452416 tatttttcattttatttgattattataatacata 46452448

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggc 1671
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46783699 aacgtcttatcccactaggtggggtcggc 46783727

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 47036225 cattaatttttaaattaataataattatatatttttgagaaaaaaaa 47036181

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacaa 5571
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3887645 ttttttttaaaaaaaaaaaaaacaa 3887668

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
|||||
Sbjct: 7555686 tttttttttaaaaaaaaaaaaaaaca 7555663

Score = 48.1 bits (24), Expect = 0.026
Identities = 81/100 (81%)
Strand = Plus / Minus

Query: 7122 tgtctttcatagccttggttaatacttttgataaaacttcaccaaataatcactcttg
7181
||||| || ||||| ||||| ||||| ||||| || || || || || || || ||
Sbjct: 19721610 tgtctttgattgccttggttagtacttccatataaaacttgatcagatgcaagcattggtg
19721551

Query: 7182 cgacttctctccccctttggttgaacaatgcattacacct 7221
|| ||||| || ||||| ||||| ||||| ||||| |||||
Sbjct: 19721550 cggcttctgtccttcttttggttgaacaatgcataaacacct 19721511

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/52 (86%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattagttcagttggtagagcatt 5252
|||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 26795131 attatttattttataatgtaattgattcattagcttagttggtagagcatt 26795080

Score = 48.1 bits (24), Expect = 0.026
Identities = 87/108 (80%)
Strand = Plus / Plus

Query: 6733 tgtgtatacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggc
6792
|||| ||||| ||||| || ||||| ||||| ||||| || ||||| |||||
Sbjct: 27383198 tgtggatacgagaggagatggaacgacccttagaatttattttcttctctgggtcaaggc
27383257

Query: 5178 attttagtggttatatt 5193


```
      |||| |||||
Sbjct: 49996756 atttaagtgttatatt 49996771
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

```
Query: 5117   aaaattaattgttacaaaatttattatctaaattt 5151
           ||||| ||| | |||||
Sbjct: 691176 aaaatttattatcacaaaatttattatctaaattt 691210
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

```
Query: 6516   acaagttgacttgaactaaaatatttaaatt 6546
           ||||| ||||| |||||
Sbjct: 2724289 acaagttgaattgaacttaaataatttaaatt 2724259
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

```
Query: 5548   ttttttttaaaaaaaaaaaaaaca 5570
           ||||| ||||| |||||
Sbjct: 3302509 ttttttttaaaaaaaaaaaaaaca 3302531
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

```
Query: 1646   gccttatcccactaggtggggtcggctacatggat 1680
           ||||| ||||| ||||| |||||
Sbjct: 6068114 gccttatctcactaggtgggttcagctacatggat 6068148
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 2123 aacccccgatgcttttctccattt 2145
 |||||||
Sbjct: 18017581 aacccccgatgcttttctccattt 18017559

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 ||||||| | |||||
Sbjct: 19788484 acaagttcaattgaactaaaatatttaaatt 19788454

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaaaca 5571
 ||||||| | |||||
Sbjct: 24117764 aacttttttctaaaaaaaaaaaaaaca 24117738

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 6354 aatattatttttcatatgttggtt 6376
 |||||||
Sbjct: 27786061 aatattatttttcatatgttggtt 27786083

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6287 aattgtttgtatttttatgtttttgttatt 6317
 ||||||| | |||||
Sbjct: 27796378 aattgtttttatgtttttatgtttttgttatt 27796348

Score = 46.1 bits (23), Expect = 0.10
Identities = 38/43 (88%)
Strand = Plus / Minus

Query: 6043 ttttttatccaaataataaaaaaaaaaattaattatttaccctaaa 6085
 ||||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 27796639 ttttttacctaaataataaaaaataaatgaattatttatccaaa 27796597

Score = 46.1 bits (23), Expect = 0.10
Identities = 38/43 (88%)
Strand = Plus / Minus

Query: 7179 ttgcgacttctctccccctttggttgaacaatgcattacacct 7221
 ||| ||||| | ||| ||||| ||||| ||||| |||||
Sbjct: 28172232 ttgcaacttctctttctcttttgttgaacaatgcattacacct 28172190

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5567
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 35987795 aacttttttttaaaaaaaaaaaaaa 35987773

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 6057 aataaaaaaaaaattaattattta 6079
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41030253 aataaaaaaaaaattaattattta 41030231

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5298 ttaatttttaaatattttgtaaaatat 5324
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42888489 ttaatttttaaatattttctaaaatat 42888515

Score = 46.1 bits (23), Expect = 0.10
Identities = 65/79 (82%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacataa
5221
 ||||| ||| ||||| ||||| ||| || ||||| ||||| ||| |||
Sbjct: 44628715 taaatataatTTgtaaatTTtagTTTTatatataacgatattaattTTTTtaataaa
44628774

Query: 5222 ttgatgtattagttcagtt 5240
 || | |||| |||||
Sbjct: 44628775 ttagtctattaattcagtt 44628793

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 1647 cttatcccactaggtggggtcggctacat 1676
 ||||| ||||| ||| ||||| |||||
Sbjct: 232118 cttatcccactaagtggggtcggctacat 232089

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6262 tgctTTTTTTTTtgTTTTgTTT 6283
 ||||| ||||| ||||| ||||| |||||
Sbjct: 862215 tgctTTTTTTTTtgTTTTgTTT 862236

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 2584 taatTTTTTTTTctTTTctaaa 2605
 ||||| ||||| ||||| ||||| |||||
Sbjct: 2396419 taatTTTTTTTTctTTTctaaa 2396440

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6542 aaattacaaaatagatatgaaa 6563
|||||
Sbjct: 2515207 aaattacaaaatagatatgaaa 2515228

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 3089103 acttttttttaaaaaaaaaaaaaa 3089082

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 8175323 ctttttttttaaaaaaaaaaaaaa 8175344

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||
Sbjct: 11239290 aaattaaaaaatatatatttaa 11239311

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||
Sbjct: 11272392 aaattaaaaaatatatatttaa 11272413

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 11304045 aaattaaaaaatatatatttaa 11304066

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 11343227 aaattaaaaaatatatatttaa 11343248

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 11382674 aaattaaaaaatatatatttaa 11382695

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 11417075 aaattaaaaaatatatatttaa 11417096

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 11445597 aaattaaaaaatatatatttaa 11445618

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 11494072 aaattaaaaaatatatatttaa 11494093

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5330 tgaaaaaaaaattataaaaaaa 5351
|||||||
Sbjct: 11648176 tgaaaaaaaaattataaaaaaa 11648155

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 11666736 aaattaaaaaatatatatttaa 11666757

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 11960009 aaattaaaaaatatatatttaa 11959988

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)

Strand = Plus / Minus

```
Query: 7309      ccaccatcccatgcgagagtccacttttcttgtggaat 7346
                ||||| ||| ||||| ||||| |||||
Sbjct: 19667081 ccaccatctcatgaaagagtccatttttcttgtggaat 19667044
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5547      cttttttttaaaaaaaaaaaaaa 5568
                ||||| ||||| ||||| ||||| |||||
Sbjct: 25421552 cttttttttaaaaaaaaaaaaaa 25421531
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Minus

```
Query: 6433      ctttgtatttttattttatttgattattataatacata 6470
                ||||| ||| ||||| ||||| ||| |||||
Sbjct: 28030993 ctttgtgttttcattttatttgattgttaaatacata 28030956
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

```
Query: 6286      aaattgtttgatattttatttttttt 6311
                ||||| ||||| ||||| |||||
Sbjct: 32024815 aaattgtttgatattttaatttttttt 32024790
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5547      cttttttttaaaaaaaaaaaaaa 5568
                ||||| ||||| ||||| ||||| |||||
Sbjct: 36115015 cttttttttaaaaaaaaaaaaaa 36115036
```


Score = 44.1 bits (22), Expect = 0.41
Identities = 37/42 (88%)
Strand = Plus / Plus

Query: 6518 aagttgacttgaactaaaatatttaaattacaaaatagatat 6559
||||||| || ||||||||||||||| ||||||| ||| |||||
Sbjct: 36247947 aagttgaattcaactaaaatatttagattacaatatatatat 36247988

Score = 44.1 bits (22), Expect = 0.41
Identities = 61/74 (82%)
Strand = Plus / Plus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttgtggaatcttcct 7352
||||||| ||| ||| ||| ||||||| ||| ||||||||| | ||||||| |||
Sbjct: 36248613 gtgtcccatcgctcgaccatcatctcatgcaaagtccacttttctcatagaatcttgct 36248672

Query: 7353 aagctaattaattg 7366
||| |||||||||
Sbjct: 36248673 gagccaattaattg 36248686

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5331 gaaaaaaaaattataaaaaaat 5352
||||||||| |||||||||
Sbjct: 38431141 gaaaaaaaaattataaaaaaat 38431120

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5542 ttgaacttttttttaaaaaaaaaaaa 5567
||||||||| |||||||||
Sbjct: 39044164 ttgaacttttttttaaaaaaaaaaaa 39044139

Score = 44.1 bits (22), Expect = 0.41

Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||||||
Sbjct: 40610639 tttttttttaaaaaaaaaaaaaaac 40610660

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttatta 5142
 ||||||| |||||
Sbjct: 44720498 aaaattaattgtcacaaaatttatta 44720523

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 46615099 cttttttttaaaaaaaaaaaaaaa 46615078

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaaaca 5570
 |||||||
Sbjct: 47935965 ttttttttaaaaaaaaaaaaaaaca 47935986

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5165 atatacattagaaatttttagt 5185
 |||||||
Sbjct: 691213 atatacattagaaatttttagt 691233

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5204 aattatttttataacataattg 5224
|||||||
Sbjct: 797175 aattatttttataacataattg 797155

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 1376798 tttttttttaaaaaaaaaaaaaa 1376778

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 2811 ttcataataaaatggagattccttatg 2835
|||||||
Sbjct: 1638034 ttcataataaaatgaagattccttatg 1638010

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaaaca 5571
|||||||
Sbjct: 1992193 ctttttttttaaaaaaaaaaaaaaaca 1992169

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||||

Sbjct: 2520700 tttttttttaaaaaaaaaaaaaa 2520680

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 6720 atatccattttggtgtgtatacgagaggagaca 6752
||||||| ||||| ||| |||||
Sbjct: 2724110 atatccatttcggtgtggatatgagaggagaca 2724078

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 3887660 tttttttttaaaaaaaaaaaaaa 3887640

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 2577 ttgtaaataatatttttttttc 2597
|||||||
Sbjct: 7555429 ttgtaaataatatttttttttc 7555449

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 7971194 tttttttttaaaaaaaaaaaaaa 7971214

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5331 gaaaaaaaaattataaaaaaa 5351
|||||||
Sbjct: 10572489 gaaaaaaaaattataaaaaaa 10572509

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6289 ttgtttgtatttttatttttttgt 6313
|||||||
Sbjct: 26656216 ttgtttgtatttttatgtttttgt 26656240

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaa 5567
|||||||
Sbjct: 27637604 cttttttttaaaaaaaaaaaaa 27637584

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaa 5568
|||||||
Sbjct: 30329452 tttttttttaaaaaaaaaaaaa 30329432

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 1847 cttctctctacatgcccaaaccacctaag 1875
|||||||
Sbjct: 32431217 cttctctgcacatgcccaaaccacctaag 32431245

Score = 42.1 bits (21), Expect = 1.6

Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5543 tgaacttttttttaaaaaaa 5563
|||||
Sbjct: 33393490 tgaacttttttttaaaaaaa 33393510

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttatt 5141
|||||
Sbjct: 33535367 aaaattaattgtcacaaaatttatt 33535343

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaattataaaaaa 5350
|||||
Sbjct: 33867300 aaaacatatatttttgaaaaaaaaattataaaaaa 33867268

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6492 aattaaaaaatatatatttaa 6512
|||||
Sbjct: 35724297 aattaaaaaatatatatttaa 35724317

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4917 aattttgtcatttttttcact 4937
|||||
Sbjct: 35901065 aattttgtcatttttttcact 35901045

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 35966615 ctttttttttaaaaaaaaaaaaaa 35966595

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 36100438 ctttttttttaaaaaaaaaaaaaa 36100458

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 4785 taataataattaataagtaataatt 4809
|||||||
Sbjct: 36215733 taataataattaataaataataatt 36215757

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 6217 aaaaccaagttaagaaatcggttccttgg 6245
|||||||
Sbjct: 36247228 aaaaccacgttatgaaatcggttccttgg 36247200

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 7736 acaatcaccaacaaatgatac 7756
|||||||

Sbjct: 37169507 acaatcaccaacaaatgatac 37169527

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4880 tttttctttttatttttatttt 4900
|||||
Sbjct: 38348649 tttttctttttatttttatttt 38348629

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 6209 tttttttcaaaaccaagttaagaaatcgg 6237
|||||
Sbjct: 38435063 ttttttttaaaaccaagttaagaattcgg 38435091

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4880 tttttctttttatttttatttt 4900
|||||
Sbjct: 38645590 tttttctttttatttttatttt 38645610

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5320 aatatatttttgaaaaaaaaattat 5344
|||||
Sbjct: 39965273 aatatattttttaaaaaaaaaattat 39965249

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 40052665 aaaaaaaaaattataaaaaaat 40052645

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 40863065 ttttttttaaaaaaaaaaaaaa 40863085

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6442 tttattttatttgattattataata 6466
 |||||
Sbjct: 41244093 tttattttatttgattattttaata 41244117

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgtttggttta 6285
 |||||
Sbjct: 41379151 ttttttttttgtttggttta 41379131

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5015 taattttaataaattatttta 5035
 |||||
Sbjct: 42270437 taattttaataaattatttta 42270417

Score = 42.1 bits (21), Expect = 1.6

Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 5031 ttttatgaataaataaaaagggttttattcttaaatttg 5067
||||| | ||||| ||||| | ||||| ||||| |||||
Sbjct: 42281164 ttttataagtaaataaaaagatatattcttaaatttg 42281200

Score = 42.1 bits (21), Expect = 1.6
Identities = 42/49 (85%)
Strand = Plus / Plus

Query: 5132 aaaattttattatctaaatttgcacatgcacaataaatatacatagaaatt 5180
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42687400 aaaattttattatataaaatttatatgtacattaaatatattaaaaatt 42687448

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaaaaacaagt 5573
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42916147 aacttttttttcaaaaaaaaaaaaaaaaaaagt 42916175

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43156523 tttttttttaaaaaaaaaaaaaa 43156503

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5543 tgaactttttttttaaaaaaaaa 5563
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43646694 tgaactttttttttaaaaaaaaa 43646714

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 2576 tttgtaaataatatTTTTTTT 2596
 |||||
Sbjct: 43894984 tttgtaaataatatTTTTTTT 43895004

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6753 tgacaacctttagaatttctt 6773
 |||||
Sbjct: 44198853 tgacaacctttagaatttctt 44198833

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 44808108 ttttttttaaaaaaaaaaaaaa 44808128

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 45808116 ttttttttaaaaaaaaaaaaaa 45808136

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||

Sbjct: 46389566 tttttttttaaaaaaaaaaaaaa 46389546

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 46407762 tttttttttaaaaaaaaaaaaaa 46407782

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5320 aatatatttttgaaaaaaaaa 5340
|||||
Sbjct: 46654014 aatatatttttgaaaaaaaaa 46654034

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5333 aaaaaaaattataaaaaaatg 5353
|||||
Sbjct: 46744945 aaaaaaaattataaaaaaatg 46744925

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaaa 5340
||||| |||
Sbjct: 48403296 attaatttcaaaattatatatttttgaaaaaaaaa 48403328

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 49311281 tttttttttaaaaaaaaaaaaaa 49311261

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 2210 gacccaagatatatttaaaccgtgtga 2234
 |||||||
Sbjct: 49444525 gacccaagatatatttaaagcgtgtga 49444549

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5323 atatatttttgaaaaaaaaaattataaa 5347
 |||||||
Sbjct: 49594891 atatattttgtaaaaaaaaaattataaa 49594867

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 223595 tttttttttaaaaaaaaaaaaaa 223576

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6486 aattgaaattaaaaaatata 6505
 |||||||
Sbjct: 524485 aattgaaattaaaaaatata 524504

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 536732 ctttttttttaaaaaaaaaa 536713

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattt 6510
|||||||
Sbjct: 808316 aaattaaaaaatatatattt 808335

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3973 tataaaaaatttaattgttttt 3992
|||||||
Sbjct: 1207567 tataaaaaatttaattgttttt 1207548

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5568
||||||| |||||
Sbjct: 1873960 aactttttttataaaaaaaaaa 1873983

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 1650 tatcccactaggtggggctcggtacatg 1677
||||||| ||| |||||
Sbjct: 2128266 tatcccactaggtgaggttggtacatg 2128293

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 2215942 tttttttttaaaaaaaaaaaaaa 2215961

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 2308606 tttttttttaaaaaaaaaaaaaa 2308587

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgttttaaaa 6288
 |||||||||||||||||| |||
Sbjct: 3107806 ttttttttttgttttgttttaaaa 3107829

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 3314255 tttttttttaaaaaaaaaaaaaa 3314236

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6205 attttttttttcaaaaccaa 6224
 ||||||||||||||||||

Sbjct: 3735557 attttttttttcaaaaccaa 3735576

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5323 atatttttgaaaaaaaaatt 5342
|||||||
Sbjct: 4232829 atatttttgaaaaaaaaatt 4232810

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 4266660 ttttttttaaaaaaaaaaaaaa 4266679

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 4392112 ttttttttaaaaaaaaaaaaaa 4392093

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 4867308 ttttttttaaaaaaaaaaaaaa 4867289

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 5393337 ctttttttttaaaaaaaaaa 5393318

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaa 5567
 |||||
Sbjct: 5418402 ttttttttaaaaaaaaaa 5418421

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 5623399 aactttttttataaaaaaaaaa 5623376

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 5637176 aactttttttataaaaaaaaaa 5637199

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgttttaaa 6288
 ||||| |||||
Sbjct: 6192365 ttttttttttgttttttttaaa 6192342

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 6224916 tttttttttaaaaaaaaaaaaaa 6224935

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5440 taaaaaaactatgaacccaaaataga 5463
||||||| |||||||
Sbjct: 6568086 taaaaaaatataacccaaaataga 6568109

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5576 taaaaaaactatgaacccaaaataga 5599
||||||| |||||||
Sbjct: 6568086 taaaaaaatataacccaaaataga 6568109

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
||||||| |||||||
Sbjct: 7504146 tttttttttaaaaaaaaaataaaca 7504123

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 3266 gccaatTTTTgtAACAGGgtcttc 3289
||||||| |||||||
Sbjct: 8052965 gccaatTTTTgtAAAAGGgtcttc 8052942

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaaattaattat 6076
|||||||
Sbjct: 8569033 aaataataaaaaataattaattat 8569056

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 8640556 ttttttttaaaaaaaaaaaaaa 8640537

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattt 5181
|||||||
Sbjct: 8979578 taaatatacattagaaattt 8979597

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 9161080 ttttttttaaaaaaaaaaaaaa 9161099

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 1646 gccttatcccactagggtggggtcg 1669
|||||||

Sbjct: 9245089 gccttatcccactaggtgaggtcg 9245112

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6261 ttgctttttttttttgttttgtttt 6284
 ||||| |||||
Sbjct: 9406495 ttgcttttggttttggtttggttt 9406472

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 11034092 ttttttttaaaaaaaaaaaaaa 11034111

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||| |||||
Sbjct: 12008798 ttttttttaaaaaaaaaaaaaaaca 12008775

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 12277535 ttttttttaaaaaaaaaaaaaa 12277554

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 12876150 aaaaaaaaaattataaaaaaa 12876131

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5536 ttgttattgaactttttttt 5555
 |||||
Sbjct: 13355757 ttgttattgaactttttttt 13355776

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6052 caaataataaaaaaaaaattaatta 6075
 |||||
Sbjct: 14300485 caaataatataaaaaaaaaattaatta 14300508

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 16665172 ttttttttaaaaaaaaaaaaaa 16665191

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 18766537 ttttttttaaaaaaaaaataaaca 18766514

Score = 40.1 bits (20), Expect = 6.4

Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 2509 tttttcttgactttattattatta 2532
 ||||| |||||
Sbjct: 20118895 tttttcttgattttattattatta 20118872

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5550 tttttttaaaaaaaaaaaaaacaagt 5573
 ||||| |||||
Sbjct: 20875321 tttttttaaaaaaaaaaaaaacaagt 20875344

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||| |||||
Sbjct: 22182155 ttttttttaaaaaaaaaaaaaa 22182136

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5317 taaaatatattttttgaaaaaaaaattataaaa 5348
 ||||| |||||
Sbjct: 23745984 taaaatatattttttcataaaaaataataaaa 23746015

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5995 atcgaaaaagaaaaagaaa 6014
 |||||
Sbjct: 24843899 atcgaaaaagaaaaagaaa 24843880

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 7377 ttggccttaaaacacacatgacaa 7400
 ||||| ||||||||||||||||
Sbjct: 27789754 ttggccttaaaacacacatgacaa 27789777

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 ||||||||||| |||||||||||
Sbjct: 27824462 aacttttttttaaaaaaaaaaaaaa 27824439

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5121 ttaattggtacaaaatttattatctaaa 5148
 ||||||| ||||||||||||||| |||
Sbjct: 27875327 ttaattgtcacaaaatttattatgtaaa 27875354

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaaattaa 6072
 |||||||||||||||||||
Sbjct: 29532813 aaataataaaaaaaaaaattaa 29532794

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 7377 ttggccttaaaacacacatgacaa 7400
 ||||| ||||||||||||||||

Sbjct: 29916021 ttggcattaaaacacacatgacaa 29915998

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 7265 tttcttgagtaccaaattaattaactca 7292
||||||| ||||||||| |||||
Sbjct: 29919274 tttcttgattaccaaattaattgactca 29919247

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 4886 ttttatttttattttgttcctatt 4909
||||||| |||||||
Sbjct: 30348409 ttttatttttatttttttcctatt 30348432

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
||||||| |||||||
Sbjct: 30939823 ttttttttaaaaaaaaaaaaaa 30939804

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6267 ttttttttgttttgttttaaaatt 6290
||||||| |||||||
Sbjct: 31580519 ttttttttgttttattttaaaatt 31580496

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5333 aaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 31772752 aaaaaaaattataaaaaaat 31772733

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6302 tattttttttgttattaatt 6321
 |||||
Sbjct: 31932751 tattttttttgttattaatt 31932770

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5571
 |||||
Sbjct: 33403971 tttttttttaaaaaaaaaataaaca 33403994

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaa 5568
 |||||
Sbjct: 33653202 aactttttttataaaaaaaaaaaaa 33653225

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6293 ttgtattttttattttttttgttat 6316
 |||||
Sbjct: 33654720 ttgtattttttattttttttgttat 33654697

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 34521095 ttttttttaaaaaaaaaaaaaa 34521114

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 7399 aaatatattttattataaaaac 7418
 ||||||||||||||||||
Sbjct: 34581354 aaatatattttattataaaaac 34581335

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 34673756 tttttttaaaaaaaaaaaaaa 34673775

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 35110494 tttttttaaaaaaaaaaaaaa 35110475

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6612 attttaaaatacaaacaata 6631
 ||||||||||||||||||
Sbjct: 35878382 attttaaaatacaaacaata 35878363

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 35926559 tttttttttaaaaaaaaaaaaaa 35926540

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6369 atgttggttaattcttaattt 6388
 ||||||||||||||||||
Sbjct: 36004477 atgttggttaattcttaattt 36004458

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 36576434 ttttttttttgttttgtttt 36576415

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5019 ttttaataaattattttatgaataa 5042
 |||||||||||||||||| |||||
Sbjct: 36588076 ttttaataaattattttatcaataa 36588053

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||

Sbjct: 36837238 ttttttttttgttttgtttt 36837219

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||
Sbjct: 36924471 ctttttttttaaaaaaaaaa 36924490

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5131 caaaatttattatctaaatt 5150
|||||
Sbjct: 36927916 caaaatttattatctaaatt 36927935

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5560 aaaaaaaaaacaagtaataaaaaaac 5583
|||||
Sbjct: 37688708 aaaaaaaaaacaagaaataaaaaaac 37688685

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6291 gtttgtatttttattttttttggt 6314
|||||
Sbjct: 37853768 gtttgtattttcattttttttggt 37853791

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 38349455 aacttttttttataaaaaaaaaaaaa 38349432

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5336 aaaaattataaaaaaatgaa 5355
 |||||
Sbjct: 38506659 aaaaattataaaaaaatgaa 38506678

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6206 ttttttttttcaaaaccaagttaa 6229
 |||||
Sbjct: 38630921 ttttttttttcaaaaccaaattaa 38630898

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 39044158 ttttttttaaaaaaaaaaaaaa 39044139

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 39365294 ttttttttaaaaaaaaaaaaaa 39365313

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 39379545 ttttttttaaaaaaaaaaaaaa 39379564

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 41391378 ttttttttaaaaaaaaaaaaaa 41391359

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5318 aaaatatatttttgaaaaaa 5337
 ||||||||||||||||||
Sbjct: 41821223 aaaatatatttttgaaaaaa 41821242

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6438 tttttttattttatttgatt 6457
 ||||||||||||||||||
Sbjct: 41864467 tttttttattttatttgatt 41864486

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaattataaaaaaat 5352
 ||||||||||||||||||
Sbjct: 41926370 aaaaaaaattataaaaaaat 41926389

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2581 aaataatatattttttttcttt 2600
|||||
Sbjct: 42720240 aaataatatattttttttcttt 42720221

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 6283 ttaaaattgtttgtatttttattttttt 6310
|||||
Sbjct: 43039675 ttaaacttggtttttatttttattttttt 43039702

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
|||||
Sbjct: 43156508 ttttttttaaaaaaaaaaagaaaca 43156531

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5542 ttgaacttttttttaaaaaaaaaa 5565
|||||
Sbjct: 43798492 ttgaatttttttttaaaaaaaaaa 43798515

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||

Sbjct: 44040858 ttttttttaaaaaaaaaaaaaa 44040839

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 44274059 ttttttttaaaaaaaaaaaaaa 44274040

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggtacaaaatttattatctaaattt 5151
||||||| | ||||| |||||
Sbjct: 44720476 aaaaattaattatcacaaaattaattatataaaattt 44720441

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggtacaaaatttattat 5143
||||||| | |||||
Sbjct: 44747534 aaaaattaattgtcaaaaaatttattat 44747561

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 45174361 ttttttttaaaaaaaaaaaaaa 45174342

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 45222245 tttttttttaaaaaaaaaaaaaa 45222226

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 45222230 tttttttttaaaaaaaaaaaaaa 45222249

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 45239954 tttttttttaaaaaaaaaaaaaa 45239973

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaattt 5151
 | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 45443671 aaaaattaattatcacataatttattatgttaaattt 45443636

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 45486658 tttttttttaaaaaaaaaaaaaa 45486677

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 45968110 actttttttttaaaaaaaaaa 45968091

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4796 aataagtaataatttttttat 4815
 |||||
Sbjct: 46007563 aataagtaataatttttttat 46007544

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5999 aaaaagaaaaaagaaatgca 6018
 |||||
Sbjct: 47102969 aaaaagaaaaaagaaatgca 47102988

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5202 ttaattatttttataacataattga 5225
 |||||
Sbjct: 47733935 ttaattattttttaacataattga 47733958

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5567
 |||||
Sbjct: 47835668 tttttttttaaaaaaaaaa 47835687

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 1651 atcccactaggtggggctcggctacatggatca 1682
|||||||
Sbjct: 47888526 atcccactaggtgaggttggtacatagatca 47888495

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 47905152 cttttttttaaaaaaaaaa 47905133

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtg 1663
|||||
Sbjct: 48329514 acaaagccttatcccactaggtg 48329491

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaa 5565
|||||||
Sbjct: 48489704 actttttttttaaaaaaaaaa 48489685

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5331 gaaaaaaaaattataaaaaaatga 5354
|||||||

Sbjct: 49280130 gaaaaaaaaaatataaaaaaatga 49280107

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 535 tcttttattttaattagtttaaata 558
|||||
Sbjct: 50266349 tcttttatttatttagtttaaata 50266326

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2580 taaataatatTTTTTTTctt 2599
|||||
Sbjct: 50266434 taaataatatTTTTTTTctt 50266453

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaa 5565
|||||
Sbjct: 50369591 actttttttttaaaaaaaaaa 50369610

>[gb|CM000850.1](#) Glycine max chromosome 17, whole genome shotgun sequence
Length = 41906774

Score = 1600 bits (807), Expect = 0.0
Identities = 813/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 25307953 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
25308012

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 25308013 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
25308072

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 25308073 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
25308132

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 25308133 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
25308192

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 25308193 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
25308252

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 25308253 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25308312

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 25308313 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
25308372

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 25308373 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
25308432

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 25308433 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
25308492

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 25308493 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgagga
25308552

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 25308553 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
25308612

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 25308613 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
25308672

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 25308673 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
25308732

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 25308733 tctgcaaaaagcatgcatctcggcgctatctcttg 25308767

Score = 1600 bits (807), Expect = 0.0
Identities = 813/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 38360321 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
38360262

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 38360261 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
38360202

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 38360201 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
38360142

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 38360141 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
38360082

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 38360081 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
38360022

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 38360021 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38359962

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 38359961 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
38359902

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 38359901 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
38359842

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 38359841 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
38359782

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 38359781 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
38359722

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 38359721 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
38359662

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362
|||||
Sbjct: 38359661 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
38359602

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
|||||
Sbjct: 38359601 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
38359542

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 38359541 tctgcaaaaagcatgcatctcggcgctatctcttg 38359507

Score = 1586 bits (800), Expect = 0.0
Identities = 809/812 (99%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
1705
|||||
Sbjct: 24204228 gccttatcccactaggtggggctcggctacatggatcaacttccgtcataatgttctatca
24204169

Query: 1706 agtaccatacttctatccaaaccatttaatttcgagatcctttttgataacctctcttata
1765
|||||
Sbjct: 24204168 agtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctcttata
24204109

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825
|||||
Sbjct: 24204108 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
24204049

Query: 1826 ctcaactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
1885
|||||
Sbjct: 24204048 ctcaactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
24203989

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttctaatt
1945
|||||

Sbjct: 24203988 accatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctaatt
24203929

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
2005

|||||
Sbjct: 24203928 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
24203869

Query: 2006 ttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccggtctt
2065

|||||
Sbjct: 24203868 ttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccggtctt
24203809

Query: 2066 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
2125

|||||
Sbjct: 24203808 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
24203749

Query: 2126 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
2185

|||||
Sbjct: 24203748 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
24203689

Query: 2186 atttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgagggata
2245

|||||
Sbjct: 24203688 atttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgagggata
24203629

Query: 2246 atatggtctcctattttccactctgagttagaaaccctccttcttttgttgaacttacat
2305

|||||
Sbjct: 24203628 atatggtctcctattttccactctgagttagaaaccctccttcttttgttgaacttacat
24203569

Query: 2306 tccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgtctc
2365

|||||
Sbjct: 24203568 tccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgtctc
24203509

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
2425

|||||

Sbjct: 24203508 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
24203449

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 24203448 gcaaaaagcatgcatctcggcgctatctcttg 24203417

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 12364351 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
12364292

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 12364291 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
12364232

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 12364231 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
12364172

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 12364171 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
12364112

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 12364111 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
12364052

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 12364051 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12363992

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 12363991 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
12363932

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 12363931 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
12363872

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 12363871 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
12363812

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 12363811 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
12363752

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 12363751 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
12363692

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 12363691 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
12363632

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 12363631 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
12363572

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 12363571 tctgcaaaaagcatgcatctcggcgctatctcttg 12363537

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 31019422 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
31019481

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 31019482 tcaagtaccatacttttatccaaatcattaagttcgagatcctttttgataacctctctt
31019541

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

|||||
Sbjct: 31019542 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
31019601

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 31019602 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
31019661

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 31019662 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
31019721

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 31019722 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
31019781

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 31019782 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
31019841

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 31019842 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 31019901

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182

|||||
 Sbjct: 31019902 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 31019961

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 31019962 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 31020021

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 31020022 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 31020081

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 31020082 cattccatataactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 31020141

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 31020142 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 31020201

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 31020202 tctgcaaaaagcatgcatctcggcgctatctcttg 31020236

Score = 1578 bits (796), Expect = 0.0
 Identities = 812/816 (99%), Gaps = 1/816 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 22963229 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 22963288

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 22963289 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
22963348

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 22963349 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
22963408

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 22963409 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
22963468

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 22963469 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
22963528

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 22963529 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
22963588

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 22963589 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
22963648

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacat-aa
2121

|||||
Sbjct: 22963649 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataaa
22963708

Query: 2122 ccccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
2181

|||||
Sbjct: 22963709 ccccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
22963768

Query: 2182 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
 2241

|||||
 Sbjct: 22963769 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
 22963828

Query: 2242 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
 2301

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 Sbjct: 22963829 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
 22963888

Query: 2302 acattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcg
 2361

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 Sbjct: 22963889 acattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagttcg
 22963948

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
 2421

|||||
 Sbjct: 22963949 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
 22964008

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 22964009 atctgcaaaaagcatgcatctcggcgctatctcttg 22964044

Score = 1576 bits (795), Expect = 0.0
 Identities = 810/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 2638513 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 2638572

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 2638573 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 2638632

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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Sbjct: 2638633 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
2638692

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 2638693 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
2638752

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 2638753 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
2638812

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 2638813 attttatcctgtcgggtcttaccacacatccaccgcaacatcctcatctccgctacacct
2638872

Query: 2003 actttattctcatgttggtcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 2638873 actttattctcatgttggtcttgaccgccccaacattctgttcggtacaaaatcgccggt
2638932

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 2638933 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2638992

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 2638993 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2639052

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 2639053 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2639112

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 2639113 ataatatggtctcctatctttcacctctgagttagaaaccctccttcttttgttgaactta
 2639172

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 2639173 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2639232

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 2639233 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2639292

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 2639293 tctgcaaaagagcatgcatctcggcgctatctcttg 2639327

Score = 1568 bits (791), Expect = 0.0
 Identities = 809/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 1379205 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1379146

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 1379145 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 1379086

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 1379085 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1379026

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 1379025 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1378966

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 1378965 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1378906

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 1378905 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
1378846

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 1378845 actttattctcatgttggtcttgaccgccaacattttgttccgtacaaaatcgccggt
1378786

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 1378785 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
1378726

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 1378725 acccccgatgcttttctccatttcatccatcctgcttgagtgcgcatgattcacatccct
1378666

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 1378665 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
1378606

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 1378605 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
1378546

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 1378545 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagttcgt
1378486

Query: 2363 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 1378485 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
1378426

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 1378425 tctgcaaaaagcatgcatctcagcgctatctcttg 1378391

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 8046059 aacgtcttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
8046000

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 8045999 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
8045940

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 8045939 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
8045880

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 8045879 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
8045820

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

|||||
Sbjct: 8045819 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
8045760

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||

Sbjct: 8045759 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacaccg
8045700

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 8045699 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
8045640

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 8045639 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
8045580

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 8045579 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
8045520

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 8045519 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
8045460

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 8045459 ataatatgggtatcctattttccctctgagttagaagccctccttcttttgttgaactta
8045400

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 8045399 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
8045340

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 8045339 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
8045280

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 8045279 tctgcaaaaagcatgcatctcggcgctatctcttg 8045245

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 29312869 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
29312928

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 29312929 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
29312988

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 29312989 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
29313048

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882
|||||
Sbjct: 29313049 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
29313108

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
|||||
Sbjct: 29313109 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
29313168

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 29313169 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29313228

Query: 2003 actttattctcatgttgggtctttgaccgcccacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 29313229 actttattctcatgttgggtctttgactgcccacattctgttccgtacaaaatcgccgggt
29313288

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 29313289 cttaccgcagtcgataaaaactttccctttagcttgattggtacctttgcatcacataac
29313348

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 29313349 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
29313408

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 29313409 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtatgacttgaggg
29313468

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

||| |||||
Sbjct: 29313469 atagtatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
29313528

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 29313529 cattccatataactccgattttcttctgcttaggcgaaagccatgtgtttctagagctcgt
29313588

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 29313589 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29313648

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 29313649 tctgcaaaaagcatgcatctcggcgctatctcttg 29313683

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatcccct
2182

Sbjct: 40139695 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatccct
 40139754

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 40139755 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgatgg
 40139814

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 40139815 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 40139874

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 40139875 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 40139934

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 40139935 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 40139994

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 40139995 tctgcaaaaagcatgcatctcggcgctatctcttg 40140029

Score = 1568 bits (791), Expect = 0.0
 Identities = 809/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 41541146 aacgccttatcccactaggtggggcggctacatgaatcaacttccgccataatgttcta
 41541087

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 41541086 tcaagtaccatacttctatctaaaccattaatttcgagatcctttttgataacctctctt
 41541027

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 41541026 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
41540967

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 41540966 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
41540907

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 41540906 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
41540847

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 41540846 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41540787

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 41540786 actttattctcatgttgggtcttgactgccccaacattctgttccgtacaaaatcgccggt
41540727

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 41540726 cttaccgcagtcgataaaaactttccctttagcttgattggtacctttgcatcacataac
41540667

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 41540666 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
41540607

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 41540606 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
41540547

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 41540546 atagtatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
41540487

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 41540486 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41540427

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 41540426 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
41540367

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 41540366 tctgtaaaaagcatgcatctcggcgctatctcttg 41540332

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 18826895 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
18826836

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 18826835 tcaagtaccatacttctatccaaaccattaatttcgagattcttttttataacctctctt
18826776

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 18826775 atagtctttttgggtcttcctctgcctcgaattatttgtcttctctccatctgggtctact
18826716

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 18826715 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
18826656

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 18826655 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcatttcta
18826596

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 18826595 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
18826536

Query: 2003 actttattctcatggttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 18826535 actttattctcatggttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
18826476

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 18826475 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18826416

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 18826415 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
18826356

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 18826355 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
18826296

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 18826295 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
18826236

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18826235 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
18826176

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18826175 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18826116

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 18826115 tctgcaaaaacatgcatctcggcgctatctcttg 18826081

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 37889784 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
37889725

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 37889724 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacatctctt
37889665

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 37889664 atagtctttttgggtcttctctgcctcgaatagtttgtcttctctccatctgggtctact
37889605

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

|||||
Sbjct: 37889604 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
37889545

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 37889544 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttctg
37889485

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 37889484 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
37889425

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 37889424 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
37889365

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 37889364 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
37889305

Query: 2123 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 37889304 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
37889245

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 37889244 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
37889185

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 37889184 ataatatggtctcctattttcacctctgatttagaaaccctccttcttttgttgaactta
37889125

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 37889124 cattccatataactccgatttacttctgcttaggcgaaagccatgtgtttctagagctcgt
37889065

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 37889064 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
37889005

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 37889004 tctgcaaaaagcatgcatctcggcgctatctcttg 37888970

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 13218839 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
13218780

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 13218779 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
13218720

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 13218719 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
13218660

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||||
Sbjct: 13218659 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
13218600

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||||
Sbjct: 13218599 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
13218540

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 13218539 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
13218480

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||||

Sbjct: 13218479 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgctcggt
 13218420

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 13218419 cttaccgcagtcgataaaaactttcccttagcttgatcagtcacctttgcatcacataac
 13218360

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

|||||
 Sbjct: 13218359 acccccgatgcttttctccatttcatctgtcctgcttgaatgcatgattcacatcccct
 13218300

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 13218299 tcaatttccccatcatcctgtattatagacccaagatatattaaccgtgtgacttgaggg
 13218240

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 13218239 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 13218180

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 13218179 cattccatatactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 13218120

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 13218119 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 13218060

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 13218059 tctgcaaaaagcatgcatctcggcgctatctcttg 13218025

Score = 1544 bits (779), Expect = 0.0
 Identities = 806/815 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 38200032 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
38200091

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

|||||
Sbjct: 38200092 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttaataaacctctctt
38200151

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 38200152 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
38200211

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 38200212 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
38200271

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 38200272 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
38200331

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 38200332 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38200391

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 38200392 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
38200451

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 38200452 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
38200511

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 38200512 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgatttacatccct
38200571

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 38200572 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
38200631

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 38200632 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttggtgaactta
38200691

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 38200692 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtatttctagagctcgt
38200751

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 38200752 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
38200811

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 38200812 tctgcaaaaagcatgcatctcggcgctatctcttg 38200846

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 41687233 aacgccttatcccactaggtgggggtcagctacatggatcaacttccgctcataatgttcta
41687292

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 41687293 tcaagtaccatacttctatccaaatcattaagttcgagatctttttttataacctctctt
41687352

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 41687353 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
41687412

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 41687413 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
41687472

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 41687473 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
41687532

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 41687533 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41687592

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 41687593 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
41687652

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 41687653 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
41687712

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 41687713 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
41687772

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaacggtgtgacttgaggg
2242

|||||

Sbjct: 41687773 tcaatttcccatcatcctgtattatagaccaagatatttaaaccgtgtgacttgaggg
41687832

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 41687833 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
41687892

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 41687893 cattccatataactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41687952

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 41687953 ctccaagtttccaacctctcattcaactcctccctcgactctccaagaaggactatgtca
41688012

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 41688013 tctgcaaaaagcatgcatctcggcgctatctcttg 41688047

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 23810269 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
23810210

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 23810209 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
23810150

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 23810149 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
23810090

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 23810089 ctctcactatagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
23810030

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 23810029 tccaccatcttctctacaataggcgctactccaacccttctctctaatagttcgtttcta
23809970

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 23809969 attttatcctgtcgagccttaccacacatccaccgcaacatcctcatctccgctacacct
23809910

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 23809909 actttattctcatgttggtctcttgaccgccaacatttctgttccgtacaaaatcgccggt
23809850

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 23809849 cttaccgcagtcgataaaaactttcccttagcttgattggtacctttgcatcacataac
23809790

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 23809789 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
23809730

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 23809729 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
23809670

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 23809669 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
23809610

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362
|||||
Sbjct: 23809609 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
23809550

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
|||||
Sbjct: 23809549 ctccatgtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
23809490

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 23809489 tctgcaaaaagcatgcatctcggcgctatctcttg 23809455

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 41266508 aacgccttatcccaccaggtggggtcgggtacatggatcaacttccgccataatgttcta
41266567

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 41266568 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
41266627

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 41266628 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
41266687

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882
|||||
Sbjct: 41266688 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
41266747

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 41266748 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
41266807

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 41266808 attttatcctgttgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41266867

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 41266868 actttattctcatggttggtccttgatcgccaacattctgttccgtacaaaatcgccggt
41266927

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 41266928 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
41266987

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 41266988 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
41267047

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 41267048 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
41267107

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 41267108 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
41267167

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 41267168 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41267227

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 41267228 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
41267287

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 41267288 tctgcaaaaagcatgcatctcagcgctatctcttg 41267322

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 23447261 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
23447320

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 23447321 tcaagtactatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
23447380

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 23447381 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
23447440

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 23447441 ctctcattacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
23447500

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 23447501 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
23447560

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 23447561 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
23447620

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 23447621 actttattctcatgttggtctcttgatcgccaacattctgttcggtacaaaatcgccggt
23447680

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 23447681 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
23447740

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 23447741 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
23447800

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 23447801 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacgtgaggg
23447860

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 23447861 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
23447920

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 23447921 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
23447980

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 23447981 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
23448040

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 23448041 tctgcaaaaagcatgcatctcggcgctatctcttg 23448075

Score = 1527 bits (770), Expect = 0.0
Identities = 806/818 (98%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtggggcggctacatggatcaacttccgccataatggt
1699

|||||
Sbjct: 7956135 acaaacgccttatcccactaggtggggcggctacatggatcaacttccgccataatggt
7956076

Query: 1700 ctatcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctct
1759

|||||
Sbjct: 7956075 ctatcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctct
7956016

Query: 1760 cttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtct
1819

|||||
Sbjct: 7956015 cttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtct
7955956

Query: 1820 actctcctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcta
1879

|||||
Sbjct: 7955955 actctcctcactacagagtctaccggtcgtctctctacatgccccaaaccacctaagtcta
7955896

Query: 1880 ttttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgttt
1939

|||||
Sbjct: 7955895 ttttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgttt
7955836

Query: 1940 ctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctaca
1999

|||||
Sbjct: 7955835 ctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctaca
7955776

Query: 2000 cctactttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgcc
2059

|||||
Sbjct: 7955775 cctactttagtctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgcc
7955716

Query: 2060 ggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacat
2119

|||||

Sbjct: 7955715 ggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacat
 7955656

Query: 2120 aacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcc
 2179

|||||
 Sbjct: 7955655 aacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcc
 7955596

Query: 2180 ccttcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttga
 2239

|||||
 Sbjct: 7955595 ccttcaatttctccatcgctcctgtattacagaccaagatatattaaccgtgtgacttga
 7955536

Query: 2240 gggataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaac
 2299

|||||
 Sbjct: 7955535 gggataatatgggtctcctattttccacctctgagttagataccctcctacttttgttgaac
 7955476

Query: 2300 ttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagct
 2359

|||||
 Sbjct: 7955475 ttacattccatataacttcgatttgcttctgcttaggcgaaagccatatgtttctagagct
 7955416

Query: 2360 cgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatg
 2419

|||||
 Sbjct: 7955415 cgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatg
 7955356

Query: 2420 tcatctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 7955355 tcatctgcaaaaagcatgcatctcggcgctatctcttg 7955318

Score = 1521 bits (767), Expect = 0.0
 Identities = 807/815 (99%), Gaps = 4/815 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 5464512 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 5464571

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 5464572 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
5464631

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 5464632 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
5464691

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 5464692 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5464751

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

|||||
Sbjct: 5464752 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
5464811

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 5464812 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctc-gctacacg-
5464869

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 5464870 actttattctcatgttg-ctcttgaccgcca-cattctgtaccgtacaaaatcgccggt
5464927

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 5464928 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
5464987

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 5464988 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
5465047

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 5465048 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 5465107

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 2302

|||||
 Sbjct: 5465108 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 5465167

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 5465168 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagttcgt
 5465227

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 5465228 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 5465287

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 5465288 tctgcaaaaagcatgcatctcggcgctatctcttg 5465322

Score = 1513 bits (763), Expect = 0.0
 Identities = 802/815 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 20692231 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 20692290

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 20692291 tcaagtaccatacttctatccaaatcattaagtttgagatccttcttgataacctctctt
 20692350

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||

Sbjct: 20692351 atagtctttttgggtcttctctgctcgaattgtttgcttctctccatctggtctact
20692410

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 20692411 ctctcactacagagtctaccagtcttctctctacatgcccaaactacctaagtctattt
20692470

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

Sbjct: 20692471 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
20692530

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 20692531 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
20692590

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

Sbjct: 20692591 actttagtctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
20692650

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 20692651 cttaccgcagtcgataaaaactttccctttagcttgatcagttacctttgcatcacataac
20692710

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

Sbjct: 20692711 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
20692770

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

Sbjct: 20692771 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
20692830

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 20692831 ataatatggtctcctatatttcacctctgagttagataccctcctacttttgttgaactta
 20692890

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 20692891 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 20692950

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 20692951 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 20693010

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 20693011 tctgcaaaaagcatgcatctcggcgctatctcttg 20693045

Score = 1513 bits (763), Expect = 0.0
 Identities = 802/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 22301306 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 22301247

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 22301246 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 22301187

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 1822

|||||
 Sbjct: 22301186 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctggtctact
 22301127

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 22301126 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 22301067

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 22301066 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
22301007

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 22301006 attttatcctgtcgagtcttaccacacatccatcgcaacatcctcatctccgctacacct
22300947

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 22300946 acttttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
22300887

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 22300886 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
22300827

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 22300826 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
22300767

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 22300766 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
22300707

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 22300706 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
22300647

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 22300646 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
22300587

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
|||||
Sbjct: 22300586 ctccaagtttccaacctctcattcaactcctccctcgactctccaagtaggactatgtca
22300527

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 22300526 tctgcaaatagcatgcatctcggcgctatctcttg 22300492

Score = 1505 bits (759), Expect = 0.0
Identities = 801/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggatcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 205240 aacgccttatccactaggtgggatcggctacatggatcaacttctgccataatgtttta
205181

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 205180 tcaagtaccatacttctatccaaatcatgaagttcgagatcctttttataacctctctt
205121

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 205120 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
205061

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 205060 ctccctcactacagagtctaccagtcttctctctacatgcccaaaccacctaagtctattt
205001

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
|||||
Sbjct: 205000 tccaccatcttctctacaataggcactactccaacccttctctctaatagcttagtttcta
204941

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||

Sbjct: 204940 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
204881

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 204880 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
204821

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 204820 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
204761

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 204760 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
204701

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 204700 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgagag
204641

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacta
2302

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Sbjct: 204640 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacta
204581

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 204580 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
204521

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 204520 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
204461

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||||||||||||||||||||||||||||||

Sbjct: 204460 tctgcaaaaagcatgcatctcggcgctatctcttg 204426

Score = 1370 bits (691), Expect = 0.0
Identities = 730/743 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 21429037 aacgccttatcccactaggtgggggttggtacatggatcaacttccgccataatgttcta
21429096

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 21429097 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
21429156

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 21429157 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
21429216

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 21429217 ctctcactacagagtctaccggttttctctctacatgcccaaaccacctaagttctattt
21429276

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
1942
|||||
Sbjct: 21429277 tccaccatcttctctacaattggcgctactccaaccctctctctaatagttctgtttcta
21429336

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 21429337 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
21429396

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 21429397 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
21429456

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 21429457 cttaccgcagtcgcgataaaaactttcccttttagcttaatcggtacctttgcatcacataac
21429516

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 21429517 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatctcct
21429576

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 21429577 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
21429636

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 21429637 ataatatggtctcctattttcacctctgagttataaaccctccttcttcagttgaactta
21429696

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 21429697 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
21429756

Query: 2363 ctccaagtttccaacctctcatt 2385

|||||
Sbjct: 21429757 ctccaagtttccaacctctcatt 21429779

Score = 1356 bits (684), Expect = 0.0
Identities = 696/700 (99%)
Strand = Plus / Plus

Query: 1758 ctcttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggt
1817

|||||
Sbjct: 11944865 ctcttatagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggt
11944924

Query: 1818 ctactctcctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtc
1877

|||||

Sbjct: 11944925 ctactctcctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtc
11944984

Query: 1878 tattttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgt
1937

|||||
Sbjct: 11944985 tattttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgt
11945044

Query: 1938 ttctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgcta
1997

|||||
Sbjct: 11945045 ttctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgcta
11945104

Query: 1998 cacctactttattctcatgttggtcttgaccgccccaacattctgttcggtacaaaatcg
2057

|||||
Sbjct: 11945105 cacctactttattctcatgttggtcttgaccgccccaacattctgttcggtacaaaatcg
11945164

Query: 2058 ccggtcttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcac
2117

|||||
Sbjct: 11945165 ccggtcttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcac
11945224

Query: 2118 ataacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacat
2177

|||||
Sbjct: 11945225 ataacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacat
11945284

Query: 2178 ccccttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgactt
2237

|||||
Sbjct: 11945285 ccccttcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtaactt
11945344

Query: 2238 gagggataaatatggtctcctattttcacctctgagttagaaaccctccttcttttgttga
2297

|||||
Sbjct: 11945345 gagggataaatatggtctcctattttcacctctgagttagaaaccctccttcttttgttga
11945404

Query: 2298 acttacattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagag
2357

|||||

Sbjct: 11945405 acttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagag
11945464

Query: 2358 ctcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggacta
2417

|||||
Sbjct: 11945465 ctcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggacta
11945524

Query: 2418 tgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 11945525 tgtcatctgcaaaaagcatgcatctcggcgctatctcttg 11945564

Score = 1310 bits (661), Expect = 0.0
Identities = 676/681 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 28038396 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
28038337

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 28038336 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
28038277

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 28038276 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
28038217

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 28038216 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
28038157

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 28038156 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
28038097

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 28038096 attttatcctgtcgagtcttaccgcacatccaccgcaacatcctcatctccgctacacct
28038037

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 28038036 actttattctcatgttggctcttgaccgccaacattttgttccgtacaaaatcgccggt
28037977

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 28037976 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
28037917

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182
|||||
Sbjct: 28037916 acccccaatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
28037857

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242
|||||
Sbjct: 28037856 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
28037797

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302
|||||
Sbjct: 28037796 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaacttt
28037737

Query: 2303 cattccatataactccgatttg 2323
|||||
Sbjct: 28037736 cattccatataactccgatttg 28037716

Score = 1239 bits (625), Expect = 0.0
Identities = 637/641 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 15817172 aacgccttatcccactaggtggggtcggctacatggatcaacttcgcccataatgttcta
15817113

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 15817112 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
15817053

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 15817052 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
15816993

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 15816992 ctctcactacagagtctaccggtcttctctctacatgcccaaactacctaagtctattt
15816933

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 15816932 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
15816873

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 15816872 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
15816813

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 15816812 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
15816753

Query: 2063 cttaccgcagtcgcgataaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 15816752 cttaccgcagtcgcgataaaactttccctttagcttgatcggtacctttgcatcacataac
15816693

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||

Sbjct: 15816692 acccccgatgcttttctccatttcacccatcctacttgaatgcatgattcacatccct
15816633

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 15816632 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtatgacttgaggg
15816573

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccct 2283

|||||
Sbjct: 15816572 ataatatgggtctcctattttcacctctgagttagaaaccct 15816532

Score = 1231 bits (621), Expect = 0.0
Identities = 633/637 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 16507776 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
16507717

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 16507716 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
16507657

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 16507656 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
16507597

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtcctattt
1882

|||||
Sbjct: 16507596 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtcctattt
16507537

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 16507536 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
16507477

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 16507476 attttatcctgtcgagtcttaccacacatccactgcaacatcctcatctccgctacacca
16507417

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 16507416 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
16507357

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 16507356 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
16507297

Query: 2123 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
2182
|||||
Sbjct: 16507296 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
16507237

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242
|||||
Sbjct: 16507236 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
16507177

Query: 2243 ataatatggtctcctattttcacctctgagttagaaa 2279
|||||
Sbjct: 16507176 ataatatggtctcctattttcacctctgagttagaaa 16507140

Score = 1059 bits (534), Expect = 0.0
Identities = 543/546 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 17995986 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
17995927

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 17995926 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
17995867

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 17995866 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
17995807

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 17995806 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
17995747

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 17995746 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
17995687

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 17995686 attttatcctgtcgagtcttatcacacatccaccgcaacatcctcatctccgctacacct
17995627

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 17995626 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
17995567

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 17995566 cttaccgcagtcgataaaaactttcccttttagcttgattggtacctttgcatcacataac
17995507

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 17995506 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
17995447

Query: 2183 tcaatt 2188

|||||
Sbjct: 17995446 tcaatt 17995441

Score = 1043 bits (526), Expect = 0.0
Identities = 541/546 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 10330548 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
10330607

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 10330608 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
10330667

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 10330668 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
10330727

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 10330728 ctctcactacagagtctatcggtcttctctctacatgccccaaaccacctaagtctattt
10330787

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 10330788 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
10330847

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 10330848 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
10330907

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 10330908 actttattctcatgttgggtcttggactgccaacattctgttccgtacaaaatcggtcggt
10330967

Query: 2063 cttaccgcagtcgcgataaaactttccctttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 10330968 cttaccgcagtcgcgataaaactttcccttagcttgattggtacctttgcatcacataaac
 10331027

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatccct
2182

Sbjct: 10331028 acccccgatgcttttctccatttcattccatcctgcttgaatgcgatgattcacatcccct
10331087

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Query: 2183      tcaatt 2188
        |||||
Sbjct: 10331088 tcaatt 10331093
```

Score = 989 bits (499), Expect = 0.0
Identities = 517/523 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

Subjct: 4869775 aacgccttatcccactaggtggggtcggctacatggatcaacttcgccataaatgttcta
4869716

Query: 1703 tcaagtaccatactttctatccaaaccattaattttcgagatcctttttgataacctctctt
1762

Sbjct: 4869715 tcaagtaccatacttctatccaaatcattacggttcgagatcttttttgataacctctctt
4869656

Query: 1763 atagtcttttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

Sbjct: 4869655 atagtctttttgggtcttcctctgccttgaattgtttgtcttctctccatctggtctact
4869596

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 4869595 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
4869536

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 4869535 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
4869476

Query: 1943 attttatcctgtcgtgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 4869475 attttatcctgtcgtgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
4869416

Query: 2003 actttattctcatgttggtccttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 4869415 actttattctcatgttggtctttgaccgccccaacattctgttccgtacaaaatcgccggt
4869356

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 4869355 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
4869296

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgc 2165

|||||
Sbjct: 4869295 acccccgatgcttttctccatttcatccatcctgcttgaatgc 4869253

Score = 743 bits (375), Expect = 0.0
Identities = 387/391 (98%)
Strand = Plus / Minus

Query: 1656 actaggtggggtcggctacatggatcaacttccgccataatgttctatcaagtaccatac
1715

|||||
Sbjct: 811973 actaggtggggtcggctacatggatcaacttccatcataatgttctatcaagtaccatac
811914

Query: 1716 ttctatccaaaccattaatttcgagatcctttttgataacctctcttatagtctttttgg
1775

|||||
Sbjct: 811913 ttctatccaaaccattaatttcgagatcctttttgataacctctcttatagtctttttgg
811854

Query: 1776 gtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctcctcactacag
1835

|||||
Sbjct: 811853 gtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctccccactacag
811794

Query: 1836 agtctaccggtcttctctctacatgcccaaaccacctaagtctatccccaccatcttct
 1895

|||||
 Sbjct: 811793 agtctaccggtcttctctctacatgcccaaaccacctaagtctatccccaccatcttct
 811734

Query: 1896 ctacaataggcgctactccaaccctctctctaataagcttcgtttctaattttatcctgtc
 1955

|||||
 Sbjct: 811733 ctacaataggcgctactccaaccctctctctaataagcttcgtttctaattttatcctgtc
 811674

Query: 1956 gagtcttaccacacatccaccgcaacatcctcatctccgctacacctactttattctcat
 2015

|||||
 Sbjct: 811673 gagtcttaccacacatccaccgcaacatcctcatctccgctacacctactttattctcat
 811614

Query: 2016 gttggctcttgaccgcccacattctgttcc 2046

|||||
 Sbjct: 811613 gttggctcttgaccgtccaacattctgttcc 811583

Score = 601 bits (303), Expect = e-169
 Identities = 322/327 (98%), Gaps = 1/327 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 1302079 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgatcta
 1302138

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 1302139 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1302198

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 1302199 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1302258

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|| |||||
Sbjct: 1302259 ctctcactacagagtctaccggtcttctgtctacatg-ccaaaccacctaagtctatatt
1302317

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 1302318 tccaccatcttctctacaataggcgctactccaaccctctctttaataagcttcgtttcta
1302377

Query: 1943 attttatcctgtcgagtcttaccacac 1969

|||||
Sbjct: 1302378 attttatcctgtcgagtcttaccacac 1302404

Score = 569 bits (287), Expect = e-159
Identities = 314/323 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||| |||||
Sbjct: 4668659 aacgtcttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
4668600

Query: 1703 tcaagtaccatacttctatccaaaccatttaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 4668599 tcaagtaccatacttctatccaaatcatttaagttcgagatcctttttataacctctctt
4668540

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

||| |||||
Sbjct: 4668539 ataatctttttgggtcttcctctgcctcgaattgtttgcttctctctcatctgggtctact
4668480

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 4668479 ctctcactacaaagtctaccggtcttctctctacatgcccaaaccacctaagtctaatt
4668420

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||

Sbjct: 4668419 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcatttcta
4668360

Query: 1943 attttatcctgtcgagtcttacc 1965
||||||||||||||||
Sbjct: 4668359 attttatcctgtcgagtcttacc 4668337

Score = 480 bits (242), Expect = e-132
Identities = 260/266 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
||||||||||||||||
Sbjct: 28993621 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
28993680

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
||||||||||||||||
Sbjct: 28993681 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
28993740

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
||||||||||||||||
Sbjct: 28993741 atagtctttttgggtcttcctctgcctcgaattgttttcttctctccatctgggtctact
28993800

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
||||||||||||||||
Sbjct: 28993801 atctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
28993860

Query: 1883 tccaccatcttctctacaataggcg 1908
||||||||||||||||
Sbjct: 28993861 tccaccatcttctctacaataggcg 28993886

Score = 349 bits (176), Expect = 5e-93
Identities = 271/300 (90%), Gaps = 7/300 (2%)
Strand = Plus / Minus

Query: 6304 ttttttttggttattaattgtctatatttgtgttctgtttaaattgaaaacaatattattt
 6363

Sbjct: 36545343 ||||| ||||||||||||| ||||||| ||| ||||||||| |||||||||||||||||
 36545284 ttttttggttattaattgtatatatttatgttttggttaaactgaaaacaatattattt

Query: 6364 ttcatatgttggttaattcttaatttcttatgcatattttatgttttatcattttttaaga
 6423

Sbjct: 36545283 ||||||||||||| ||||||| || ||||||||||||||||||| |||||||||
 36545231 ttcatatgttggtg----ttaattttttg-gcatattttatgttttat--ttttttaaga

Query: 6424 gttgaaatcctttgtatttttattttatttgattattataataacataattaaacaacaac
 6483

Sbjct: 36545230 ||||||||||||||||||| ||||||||||||||||||| ||||||||||| |||||
 36545171 gttgaaatcctttgtattttcattttatttgattattaacataacataattaatcaacaac

Query: 6484 ttaattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaa
 6543

Sbjct: 36545170 ||||||||||| |||| ||||||||||||| ||||||||| ||||| ||||||||| |||
 36545111 ttaattgaaataaaaaaatatatatatatttaagcaacaagttgaattgaattaaaatatctaa

Query: 6544 attacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataata
 6603

Sbjct: 36545110 ||||||||||||||||| ||||||||||||||||||||||||||||||||||| ||||
 36545051 attacaaaatagatatataaaattacaaacaatagaacaaaatattttaaatttgaaacaata

Score = 309 bits (156), Expect = 4e-81
 Identities = 314/363 (86%), Gaps = 14/363 (3%)
 Strand = Plus / Plus

Query: 6292 tttgtatttttatttttttttg-ttattaattgtctatatttgtgttctgtttaaattgaa
 6350

Sbjct: 39182736 ||||||||| ||||||| | | ||||||||||||||||||| ||||| ||||||||| |||
 39182795 tttgtatttttaatttttgtgggttattaattgtctatatttatgttttggttaaactaaa

Query: 6351 aacaatattatttttcatatggttggttaattcttaatttcttatgcatattttatgtttta
 6410

Sbjct: 39182796 || ||| ||||||||| ||||||||||||||||| || |||||||||||||||||||
 39182847 aataattttatttttttatatggttggttaattttt-----tgcatattttatgtttta

Query: 6411 tcattttttt-aagagttgaaatcctttgtatttttattttatttgattattataatacat
 6469

||||| ||| ||||||||||||||||||||||||||||| |||||| |||||||
 Sbjct: 39182848 tcattttttgaagaattgaaatcctttgtatttttattttatttaattattaaaatacat
 39182907

Query: 6470 aattaaacaacaacttaattgaaattaaaaaatatatattttaactgacaagttgacttga
 6529

||||| |||||||||||||||||| ||||||||| ||||| ||| ||||||| | ||||
 Sbjct: 39182908 aattaatcaacaacttaattggaattaaaaaa---atattcaaccaacaagttaaattga
 39182964

Query: 6530 actaaaatattttaaattacaaaatagatatgaaattacaaacaatagaacaaaatattta
 6589

||||| |||||||||||||||||| ||| |||||||||||||||||||||||||||||
 Sbjct: 39182965 gctaaaacattttaaattacaaaataggtataaaattacaaacaatagaacaaaatattta
 39183024

Query: 6590 aatttgaaataataacaacaaaaattttaaaatacaaacaatatggcataaaattaatggt
 6649

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 Sbjct: 39183025 aattttaaataataacaa-taatattttaaaatacaaactacatgacatataacttaacggt
 39183083

Query: 6650 gtt 6652
 |||

Sbjct: 39183084 gtt 39183086

Score = 291 bits (147), Expect = 1e-75
 Identities = 288/334 (86%), Gaps = 2/334 (0%)
 Strand = Plus / Minus

Query: 7417 acaaacacccagtgataacaacaatgaacaacacacatgacaactacaaatcattaaataa
 7476

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 Sbjct: 33991466 acaaacactcagtaataacaataatgaacaacacacatgatgactataaatcattaaataa
 33991407

Query: 7477 tacaattacaatcaaataatttggggaggggg--tcttcaaaacttgattcaagggtcat
 7534

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 Sbjct: 33991406 taaaatagaaataaaataaattgggggggtggcatcttaaaaactcgattcaagggtcat
 33991347

Query: 7535 tgtatcatcgaggtattcacccaaaccctccaaattcaaagagcttgcagaaactgggtgg
 7594

||| ||||||||||||| ||||| | ||||||||||||||||| ||| |||||

Sbjct: 33991346 tgtttcatcgaggtattcattcaaaccctttcaaattcaaagagcttgcaaaaattggtgg
33991287

Query: 7595 tggttgtgcatatgtttatgtgggtgtgtctacggtgataacataaaactcaaggcatgt
7654

||||||||| ||||| ||||||||||||| ||| ||| ||| ||| |||||||||
Sbjct: 33991286 tggttgtgcacatgtttgtgtgggtgtgtctgtggtggtgaagatataattgaaggcatgt
33991227

Query: 7655 gaagttgaagagtttcccaaataagaaaacatagtaattatttcctcatcatcttgag
7714

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Sbjct: 33991226 gaggttggagagttgcccaaataaaaaagcatagtaattatgtccacatcgtcttgag
33991167

Query: 7715 catacatgccctgtactgaaaacaatcaccaaca 7748

|| || ||||||||||||||||| |||||||||
Sbjct: 33991166 tatgcacgccctgtactgaaaacgatcaccaaca 33991133

Score = 268 bits (135), Expect = 1e-68
Identities = 141/143 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 22429242 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
22429183

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

||||||||||||||||||||||||||| ||||| |||||||||||||||||||||||||
Sbjct: 22429182 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
22429123

Query: 1763 atagtctttttgggtcttcctct 1785

|||||||||||||||||||
Sbjct: 22429122 atagtctttttgggtcttcctct 22429100

Score = 266 bits (134), Expect = 6e-68
Identities = 299/345 (86%), Gaps = 13/345 (3%)
Strand = Plus / Minus

Query: 6298 tttttattttttttgttattaattgtctatatttgtgttctgttttaaattgaaaacaata
6357

|||||
Sbjct: 8892018 tttttattttttgtgttatttattgtttataatttatgtt-tctttaaacggaataata
8891960

Query: 6358 ttatttttcatatgttggttaattcttaatttc-ttatgcatattttatgttttatcattt
6416

|| |||||
Sbjct: 8891959 ttgttttttatatgttggtg----ttaattttgttttacatattttatgttttatcatgt
8891904

Query: 6417 ttttaa-gagttgaaatcctttgtattttttattttatttgattattataatacataattaa
6475

|||||
Sbjct: 8891903 tttaatgagttgaatt--ttttttatttcattttatttgattatcaaaatacataattaa
8891846

Query: 6476 acaacaacttaattgaaattaaaaaatatatatttaactgacaagttgacttgaactaaa
6535

|||||
Sbjct: 8891845 tcaacaacttaatttaaatttaaaaa-acatatttaaccaacaagttgaattgaactaaa
8891787

Query: 6536 atattttaaattacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatgtg
6595

|||||
Sbjct: 8891786 atatttaagttacaaaatagatatgaaattac--ataatagaacaaaatattttaaatgtg
8891729

Query: 6596 aaataataacaacaaaaatttttaaaatacaaacaaatattggcataaa 6640

|||||
Sbjct: 8891728 aaataatac-acaaaacttttttaaaatacaaacaaatattggcataaa 8891685

Score = 248 bits (125), Expect = 1e-62
Identities = 149/157 (94%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 40390410 aacgccttatcccactaggtggggctcggctacatgaatcaacttccgccataatgttcta
40390469

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Query: 6373 tggttaattcttaatttcttatgcatattttatgttttatcatttttt-aagagttgaaat
 6431

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 Sbjct: 3287667 tggttaatt-----ttttttttgcatattttatgttttattattttttgaagagatgaaat
 3287721

Query: 6432 cctttgtatttttattttatttgattattataatacataattaacaacaacttaattga
 6491

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 Sbjct: 3287722 ctttagtattttcattttatttgattattaaaatatataattaatcaataacttaattga
 3287781

Query: 6492 aattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaattacaaa
 6551

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 Sbjct: 3287782 aatt-aaaaata-atattttaactaacaatttgaattaaactaaaat-tttaaattataaa
 3287838

Query: 6552 atagatatgaaattac-aaacaatagaacaaaatatttaaatttgaaataa 6601

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 Sbjct: 3287839 ataaatataaaaattacaaaacaatacaacaaaatatttatatttgaaataa 3287889

Score = 202 bits (102), Expect = 7e-49
 Identities = 111/114 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 786324 aacgccttatcccactaggtggggctcggctacatgcatcaacttccgccataatgttcta
 786265

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacc 1756

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 Sbjct: 786264 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacc 786211

Score = 194 bits (98), Expect = 2e-46
 Identities = 194/226 (85%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
 5175

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 Sbjct: 5688078 aaaaattaattatcacaaaattcattatgtaaatttacatgtgcattaaatatacattag
 5688019

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295

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Query: 5296      cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaaat 5341
                ||||||||||||||||| || |||||||||||||||||
Sbjct: 5687898 cattaatttttaaattaatttgaaattatatatttttgaaaaaaaaaat 5687853
```

Query: 7381 ccttaaaacacacatgacaaatatTTTT-attataaaacaaacacccagtgatacaaca
7439

Query: 7440 tgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttg
7499

Query: 7500 gggaggggg-----tcttcaaaacttgattcaagggttcattgtatcatcgaggatttc
7552

Query: 7553 acccaaaccctccaaattcaaagagcttgagaaactggagggtggtgtgcatatgttt
7611

Sbjct: 15658961 atctaaaccctccaaattcttagagctttagaaaattgggtgggtggttatgcacatgttt
15658903

Score = 180 bits (91), Expect = 3e-42
Identities = 144/159 (90%), Gaps = 2/159 (1%)
Strand = Plus / Plus

Query: 6395 catatatttatgttttatcattttttaagagttgaaatcctttgtatttttattttatttg
6454
|||||
Sbjct: 38816269 catatatttatgttttatcatttttgatgagttgaaatcctttatatttttattttatttg
38816328

Query: 6455 attattataatacataattaacaacaacttaatt-gaaattaaaaaatatatattttaac
6513
|||||
Sbjct: 38816329 attattaaaatacataattaatcaacaacttaattagaattaaaaaaaaacatatatttaac
38816388

Query: 6514 tgac-aagttgacttgaactaaaatattttaaattacaaa 6551
||
Sbjct: 38816389 caacaaagtagatttgaactaaaatattttaaattacaaa 38816427

Score = 178 bits (90), Expect = 1e-41
Identities = 108/114 (94%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaa
1256
|||||
Sbjct: 2937954 tcatacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaa
2938013

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaatttattttttgaaggg 1310
|||||
Sbjct: 2938014 tatctgatatgtgggcatgtgtccacacgatattaaattacttttttaaggg 2938067

Score = 178 bits (90), Expect = 1e-41
Identities = 108/114 (94%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaa
1256
|||||
Sbjct: 2941445 tcatacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaa
2941504

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaatttattttttgaaggg 1310
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Sbjct: 2941505 tatctgatatgtgggccattgggtccacacgatattaaattactttttttaaggg 2941558

Score = 178 bits (90), Expect = 1e-41
Identities = 99/102 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 23376715 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
23376656

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcc 1744
 ||||||| |||||||||||||||| |||||| |||||||||||
Sbjct: 23376655 tcaagtatcatacttctatccaaatcattaagttcgagatcc 23376614

Score = 174 bits (88), Expect = 2e-40
Identities = 97/100 (97%)
Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2537281 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
2537222

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaatt 1296
 |||||||||||||||| |||||| ||||| |||||||||||||
Sbjct: 2537221 tatctgatatgtgggccattgggtccacacgatattaaatt 2537182

Score = 174 bits (88), Expect = 2e-40
Identities = 97/100 (97%)
Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 3008773 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
3008714

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Query: 5297      attaatTTTtaaatatttgtaaaatatatttttg 5331
                ||||||||||||||||| ||||| |||||||||
Sbjct: 13423421 attaatTTTtaaatatttcctaaacatatatttttg 13423455
```

Score = 172 bits (87), Expect = 7e-40
Identities = 90/91 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 27048945 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
27049004

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733
|||||
Sbjct: 27049005 tcaagtaccatacttctatccaaatcattaa 27049035

Score = 170 bits (86), Expect = 3e-39
Identities = 107/114 (93%)
Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256
|||||
Sbjct: 3003317 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
3003258

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaattttatTTTTTgaaggg 1310
|||||
Sbjct: 3003257 tatctgatatgtggaccattgggtccacacgatattaaattactTTTTTaaaggg 3003204

Score = 169 bits (85), Expect = 1e-38
Identities = 103/109 (94%)
Strand = Plus / Plus

Query: 1198 catcacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
1257
|||||
Sbjct: 33778443 catcacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
33778502

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaattttatTTTTTga 1306
|||||
Sbjct: 33778503 atctgatatgtggaccattgggtccacacggtattaaattttatTTTTTga 33778551

Score = 169 bits (85), Expect = 1e-38
 Identities = 88/89 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 38636887 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 38636946

Query: 1703 tcaagtaccatacttctatccaaaccatt 1731
 |||||||||||||||||||||
 Sbjct: 38636947 tcaagtaccatacttctatccaaatcatt 38636975

Score = 167 bits (84), Expect = 4e-38
 Identities = 162/188 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||||| | ||||||||||||||||||||| |||| | ||||||||||||||||
 Sbjct: 900543 aaaattaattatcacaaaatttattatctaaatttacatgctcattaaatatacattaga
 900602

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||||||||||||| | | |||||||||||||||||||||||| | || |
 Sbjct: 900603 aatttttagtggttatatataacgacattaattattttataacataattgacctattacctc
 900662

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 | |||||||| | | | |||||| | |||||| | || | |||||| | || |
 Sbjct: 900663 aattgggttagaactttgtattaataacgcgaaagtcacaagtttgattcttacacgggtc
 900722

Query: 5297 attaattt 5304
 |||||||
 Sbjct: 900723 attaattt 900730

Score = 165 bits (83), Expect = 2e-37
 Identities = 89/91 (97%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 2950165 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
 2950224

Query: 1703 tcaagtaccataacttctatccaaaccattaa 1733

|||||
 Sbjct: 2950225 tcaagtaccataacttctatccaaatcattaa 2950255

Score = 165 bits (83), Expect = 2e-37
 Identities = 207/247 (83%), Gaps = 6/247 (2%)
 Strand = Plus / Minus

Query: 7509 tcttcaaaaacttgattcaagggttcattgtatcatcgaggattcacccaaaccctccaaa
 7568

|||||
 Sbjct: 36542317 tcttcaaaaacctgattcaag-ttcattgcttcattgaggattcatccaaaccctccaaa
 36542259

Query: 7569 ttcaaagagcttgcagaaaactgggtgggtgtgcatatgtttatgtgggtgtgtctacg
 7628

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 Sbjct: 36542258 ttccaagagcattcaggaattgggtgggtgttgtgcacatatttgtgtgagtgtgtctacg
 36542199

Query: 7629 gtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacata
 7688

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 Sbjct: 36542198 gtggttaagata-----caaggcatgtgtggttgagtgctgcccaaatatagaaaacaca
 36542144

Query: 7689 gtaattatttctcatcatcttgcagcatacatgccctgtactgaaaacaatcaccaaca
 7748

|||| ||| | ||||| ||||| || ||||| ||||| ||||| |||||
 Sbjct: 36542143 gtaactatgttctcatcatctagcagtatgcatgccatgtattgaaaacaattagcaaca
 36542084

Query: 7749 aatgata 7755

|||||
 Sbjct: 36542083 aatgata 36542077

Score = 161 bits (81), Expect = 3e-36
Identities = 278/343 (81%), Gaps = 3/343 (0%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
6737

|||||
Sbjct: 33995165 atgcgacacatggaacatctcttttggttgacttgattctcgaatattcatttcggtgtgc
33995106

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797

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Sbjct: 33995105 atacaaggggagaagagacgacccttagaatttcttttctactctaggtcagagtaaatt
33995046

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857

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Sbjct: 33995045 attggctcgtgacacggtgatcaatatgcttcattatgcaattctctaacaatcatttg
33994986

Query: 6858 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
6917

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Sbjct: 33994985 tatacgttgagacacttttgcaacttatacacaagatgtatgtagctcttgactcatgg
33994926

Query: 6918 tgagcatgcttataaaciaa---caacatgagaacaaaacatgtgcattttttgaaatttg
6974

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Sbjct: 33994925 tgagcatgcttacaagcaataacaacatgagaacaaggcatgtgaaatttttgcaatttg
33994866

Query: 6975 tcacagtcacactacctttcatctagcttgaccatgaaatttc 7017

||||| ||||| ||||| || || || |||||
Sbjct: 33994865 ccacagtcacaccacctttcatccagcctaaccgtgaaatttc 33994823

Score = 157 bits (79), Expect = 4e-35
Identities = 181/215 (84%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattag
5175

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Sbjct: 14440825 aaaaattaattatcacaaaatttattatgtaaatttacatatgcattcaatatacattat
14440884

Query: 5176 aaatTTtagtgTtataTTtagtgaaattaattatTTTataacataattgatgtattagtt
 5235

Sbjct: 14440885 aaatTTtagtattatatatatagtgatattaattaatttataacataattgatttattagtt
 14440944

Query: 5236 cagttggTtagagcattatgttaataatgtgaaagTcaaaagTtcaattcttacttggaT
 5295

Sbjct: 14440945 aagTtggTtaaAatgtTgcattAataatgcaaaagTtacaagTttaattcctgcttgaat
 14441004

Query: 5296 catTaattTTtaAattaattTgtaaaatatatTTT 5330
 Sbjct: 14441005 catTaattTTtaAattaattTcaaaattatatatTTT 14441039

Score = 157 bits (79), Expect = 4e-35
 Identities = 193/230 (83%), Gaps = 2/230 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgtTacaAaatttattatctaaattTgcatgcacaataaataacattaga
 5176

Sbjct: 39646159 aaaattaattgtTacaAaatttattatgtAaattTgcatatgcattaaatataaattaga
 39646100

Query: 5177 aatTTtagtgTtataTTtagtgaaattaattatTTTataacataattgatgtattagTtC
 5236

Sbjct: 39646099 aactTTtagtgTtatatgcaatgacattgattatTTTataacataattggTctTTtagTtT
 39646040

Query: 5237 agTtggTtagagcattatgttaataatgtgaaagTcaaaagTtcaattcttacttggaTc
 5296

Sbjct: 39646039 agTtggTtaaAatgtcatgttaataacctgaaAatcacagattTgaatctTgcatgggtc
 39645980

Query: 5297 attAattTTtaAattaattTgtaaaatatatTTTtgAAAAaaattataa 5346

Sbjct: 39645979 attAattTTtaAattaattTgtaaa--atattTTTtaAAAAaataattataa 39645932

Score = 157 bits (79), Expect = 4e-35

Identities = 88/91 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatggttcta
1702
|||||
Sbjct: 41205130 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatattcta
41205071

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733
|||||
Sbjct: 41205070 tcaagtaccatacttctatccaaatcattaa 41205040

Score = 155 bits (78), Expect = 2e-34
Identities = 160/186 (86%), Gaps = 1/186 (0%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacacataaatatacattagaa
5177
||||| | ||||| ||||| ||||| ||||| || ||||| |||||
Sbjct: 4605570 aaattaattatcacaaaatt-attatttaaatttacatgcgcattaaatatacattagaa
4605628

Query: 5178 attttagtggttatattttagtgaaattaattatttataacataattgatgtattagttca
5237
||||| ||||| || | |||| ||||| ||||| || ||||| || |
Sbjct: 4605629 attttagtggttatatataataacattattttagtttataacataattaacctattaattta
4605688

Query: 5238 gttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatca
5297
|||| ||||| ||||| ||||| ||||| || ||||| |||||
Sbjct: 4605689 gttgattagagcatcatggttaataacttgaaagtcatatgttcgatttttacttggatca
4605748

Query: 5298 ttaatt 5303
|||||
Sbjct: 4605749 ttaatt 4605754

Score = 155 bits (78), Expect = 2e-34
Identities = 151/173 (87%), Gaps = 3/173 (1%)
Strand = Plus / Plus

Query: 7122 tgtctttcatagccttggttaatacttttgataaaacttcaccaaagtgaatcactcttg
7181

||||| |||| | ||||||||| ||| |||||||| | ||||||||| ||||||||| |||
Sbjct: 39183589 tgtcttccataactttgtttaatacttctatataaacttgccaaagtgaatcattat-g
39183647

Query: 7182 cgacttctctcccccttggttgaacaatgcattacacctagtaggttgattttacca
7241

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Sbjct: 39183648 tgacttttctccctcttggttgaacaatgtattacaccttgtaggttgattttacca
39183707

Query: 7242 acac--acattgccagatTTTgtgTTTTcttgagtaccaaattaattaactca 7292

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Sbjct: 39183708 acacatatattggcaaatttcgtgTTTTcttgagtaccgaattaattaactca
39183760

Score = 151 bits (76), Expect = 2e-33
Identities = 269/333 (80%), Gaps = 9/333 (2%)
Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaataatacaattacaatca
7490

||||||||||| |||||| | |||||| | ||||||||| ||| ||| || ||||
Sbjct: 14292327 atacaacaatgaaaaacacatatgacaaatacaaatcattaataactaaaataacgatca
14292386

Query: 7491 aat-aatttggggaggggg-----tcttcaaaacttgattcaagggttcattgtatca
7541

||| |||| |||| |||| | |||| |||||| | ||||||||| |||
Sbjct: 14292387 aataaattgggggttgggggagggatttctttaaactcgattcaagggttcattgtttca
14292446

Query: 7542 tcgaggtattcacccaaaccctccaaattcaaagagcttgacagaaactgggtgggtgtgt
7601

||||||||||| |||||| | ||| | ||||||||| ||| ||| | ||||| |||
Sbjct: 14292447 tcgaggtattcatccaaatcttctaagttcaaagagctgacataaattgatgggtgggtgt
14292506

Query: 7602 gcataatgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttg
7661

||| |||||| | ||||||||| |||| || | |||| | ||||||||| |||
Sbjct: 14292507 gcacatgtttgtgtgggtgtgtctggggtggcaatacataactccaggcatgtgagcttg
14292566

Query: 7662 aagagtttcccaaatatagaaaacatagtaattatttcctcatcatcttgacgcatacat
7721

|||||
Sbjct: 14292567 gagattcatgcgaacataaaaaacataatcattatgtcctcatcatcatgcaacatgcat
14292626

Query: 7722 gccctgtactgaaaacaatcaccaacaaatgat 7754
|||||||
Sbjct: 14292627 cccctgtactggccacaatcaccaacaaatgat 14292659

Score = 149 bits (75), Expect = 1e-32
Identities = 189/226 (83%), Gaps = 2/226 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||||
Sbjct: 2746975 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattaga
2747034

Query: 5177 aa--tttttagtggttatatttagtgaaattaattttttataacataattgatgtattagt
5234
|| |||||
Sbjct: 2747035 aagtttttagtggttatatatagcaacattattttttataatataattgacctactatc
2747094

Query: 5235 tcagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgga
5294
| |||||
Sbjct: 2747095 ttagttgggttagagcatggtgctaataacttaaaagttataggtttgatttttgcttggg
2747154

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
|||||||
Sbjct: 2747155 tcattaatttttaaattaatttcctaacacatatatttttgagaaaaaaaa 2747200

Score = 149 bits (75), Expect = 1e-32
Identities = 291/359 (81%), Gaps = 8/359 (2%)
Strand = Plus / Minus

Query: 6882 gtatacacaagatgtatgtagttcctataactcatgggtgagcatgcttataaacaacaaca
6941
|||||||
Sbjct: 15661294 gtatacataatatgtatgtagttcctataactcatgggtgaacatgcttacaatatagcaaca
15661235

Query: 5176 aaat t t t t t a g t g t t a t a t t t t a g t g a a a t t a a t t a t t t t t a t a a c a t a a a t t g a t g t a t t a g t t
5235
Sbjct: 2968800 aaat t t t t t a g t g t t a t a t a t a a c g a c a t t a a t t a t t t t t a t a a t a t a a t t a g t t t t a t t a g c t
2968859

```
Query: 5237      agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296            |||||
Sbjct: 8050582  agtttggttagagctttgtgttaataatttgaaagttacaggtttaattcttgcttgacc
8050641
```

Query: 5297 attaatttttaaattaatt 5314
 |||||
 Sbjct: 8050642 attaatttttaaattaatt 8050659

Score = 143 bits (72), Expect = 6e-31
 Identities = 124/140 (88%), Gaps = 1/140 (0%)
 Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatattttaaaattacaaaatagatatgaaattacaaacaata
 6575
 |||||
 Sbjct: 23459986 acaagttgaattgaactaaaatattttaaaacacaaaatattt-taaaattaccaacaaca
 23460044

Query: 6576 gaacaaaatattttaaaatttgaaataatacaacaaaaatttttaaatacaaacaatatggc
 6635
 |||||
 Sbjct: 23460045 gaacaaaatattttaaaattgaaaaaatacaacaaaaatttttaaatacaaagaatatgac
 23460104

Query: 6636 ataaaattaatgttgttggc 6655
 |||||
 Sbjct: 23460105 ataaattcaacgttgttggc 23460124

Score = 141 bits (71), Expect = 2e-30
 Identities = 174/207 (84%), Gaps = 1/207 (0%)
 Strand = Plus / Minus

Query: 7033 ctctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
 7092
 |||||
 Sbjct: 31759357 ctctctcgggttaattgtctcctagaccaagaatcgtgtgtcacatcaattgaacttaag
 31759298

Query: 7093 aacaatgtgagagtttgccttttctgtatgtctttcatagccttgtttaatacttttgt
 7152
 || |||||
 Sbjct: 31759297 aataatgtgagcattttcctttctctatgcgtcttccatggccttgtttagtacttgcat
 31759238

Query: 7153 ataaacttcaccaaataatcactcttgcgacttctctccccctttgggtgaacaatgc
 7212
 |||||

```
Query: 4816      caatatcatagctttgtttagaaaaaaagagattttaataattaatagctaaagaaatcca
4875            |||
Sbjct: 34036024 caatatcataactttgtttagaaaaaa-gagattttaatagttaatagctaaagaaaccca
34035966
```



```
Query: 7043      ttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtga
7102            |||||
Sbjct: 8891274  ttaattgtctcctgcactaagaactttatgtcacatcgatcgaactcaagaacaatgtga
8891215
```

Query: 7103 gagtttgcctttttctgtatgtctttcatagccttggttaatacttttgataaaacttca
 7162

||||| ||||||| || ||| ||||||||||| ||||||| || |||||||
 Sbjct: 8891214 gagttt--atttttcttta--tcttccatagccttggtctaataacttgatgcataaaacttgg
 8891159

Query: 7163 ccaaagtgaatcactcttgcgacttctctccccctttgggtgaacaatgcattacaccta
 7222

| ||||||||| | || | ||||||||| ||||||||| ||||||||| ||
 Sbjct: 8891158 ttagatgtaatcattgcggaatttctctccctctttgggtgaataatgcattacacctt
 8891099

Query: 7223 gtataggttgattttacc 7240
 ||||||||||||||||
 Sbjct: 8891098 gtataggttgattttacc 8891081

Score = 135 bits (68), Expect = 1e-28
 Identities = 116/132 (87%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

||||||||||| | ||||||||||| ||||||||| | ||||||||| |
 Sbjct: 12599669 aaaattaattgtcagaaaatttattatgtaaatttgcattgtgtattaaatatacattaaa
 12599728

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|| |||||||||||| |||| | ||||||||| |||| | ||||||||| |||| ||
 Sbjct: 12599729 aaatttagtggttatatatagtaacattaattattgtataatataattgatctattaattc
 12599788

Query: 5237 agttggtagag 5248

|||||||||||
 Sbjct: 12599789 agttggtagag 12599800

Score = 131 bits (66), Expect = 2e-27
 Identities = 126/146 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

||||||||||||||||||||||| |||| | ||| | |||||||||||||

Sbjct: 18631292 aaaattaattggttacaaaattttattgtgttaaacttatatgtgtattaaatatacattaga
 18631233

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||||| ||||||| ||| || |||||||||||||||||||||||| ||||||| ||
 Sbjct: 18631232 aatttttaattggttatatatagcgacattaattattttataacataattgacttattagctc
 18631173

Query: 5237 agttggtagagcattatgttaataa 5262
 ||||||||| ||| || ||| |||||||

Sbjct: 18631172 agttggttaaagcgatcatgctaataa 18631147

Score = 129 bits (65), Expect = 9e-27
 Identities = 110/125 (88%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaattttattatctaaatttgcacataaatatacattag
 5175

||||||||| | ||||||||||||||| ||||||| ||| | |||||||||||||||
 Sbjct: 12118807 aaaaattaattatcacaaaattttattatgttaaatttacatgtgtattaaatatacattag
 12118748

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235

||||||||| |||||| ||| | |||||||||||||||||||||||| | |||||||
 Sbjct: 12118747 aaatttttagtattatatatagcaacattaattattttataacataattgggtctattagtt
 12118688

Query: 5236 cagtt 5240
 |||||

Sbjct: 12118687 cagtt 12118683

Score = 129 bits (65), Expect = 9e-27
 Identities = 95/104 (91%), Gaps = 2/104 (1%)
 Strand = Plus / Plus

Query: 4817 aatatcatagctttggttagaaaaaaagagatttaataattaatagctaaagaaatccaa
 4876

||||||||| |||||| ||| ||| ||||||| ||| |||
 Sbjct: 16764533 aatatcatagctttggttagaaaaaaaga--tttaatagtttaataggtaaagaaacccaa
 16764590

Query: 4877 aagtttttcttttatttttattttgttcctattcaattctaatt 4920

|||||
Sbjct: 16764591 aagcttttcttttatttctattatcttcctattcaattctaatt 16764634

Score = 127 bits (64), Expect = 3e-26
Identities = 112/128 (87%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacatagaa
5177

|||||
Sbjct: 3330648 aaattaattatcaaaaaatttattatgtaaatttacatgtgcattaaatatatattagaa
33306589

Query: 5178 attttagtggttatattttagtgaaattaattatttataacataattgatgtattagttca
5237

|||||
Sbjct: 33306588 attttagtattatatataacgcacattaattatttataacataattgggtttattagttca
33306529

Query: 5238 gttgggtta 5245

|||||
Sbjct: 33306528 gttgggtta 33306521

Score = 125 bits (63), Expect = 1e-25
Identities = 138/163 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacatagaa
5176

|||||
Sbjct: 4583502 aaaattaattgttacaaaatttattatttaaatttacatacgcatataacattaaa
4583561

Query: 5177 aattttagtggttatattttagtgaaattaattatttataacataattgatgtattagttc
5236

|||||
Sbjct: 4583562 aattttagtggttatgtataacaacattatttactttataacataactgtctcattagctc
4583621

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcataagtt 5279

|||||
Sbjct: 4583622 agttgggttagagcattataactaataacctgaaagtcataagtt 4583664

Score = 125 bits (63), Expect = 1e-25
 Identities = 126/147 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 8357840 aaaattaattatcacaaaatttattatctaaatttgcacataaaatatacattaga
 8357899

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || | | ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 8357900 aattttattggttatataataacattaattattttataacgtacttgacctattaactc
 8357959

Query: 5237 agttggtagagcattatgttaataat 5263
 |||| ||||| ||||| ||||| |||||
 Sbjct: 8357960 agtttagtagagcattataactaataat 8357986

Score = 125 bits (63), Expect = 1e-25
 Identities = 183/223 (82%), Gaps = 5/223 (2%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 34189455 aaaattaattttcacaaaattttttatttaaatttgcacataaaatatacattaga
 34189514

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || | | ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 34189515 aatttttagtggttatatatatcaacgttatttattttataatataattggcatattagctc
 34189574

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 ||||| | || | ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 34189575 agttgggtt-----atcgtgctaataacttgaaagtcataagtttgactcctgcttgaact
 34189629

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttgaaaaaaa 5339
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 34189630 attaatTTTaaattaatttGTaaaatatatttttgaaaaaaa 34189672

Score = 125 bits (63), Expect = 1e-25
Identities = 66/67 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 37367971 aacgctttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
37368030

Query: 1703 tcaagta 1709
||||||
Sbjct: 37368031 tcaagta 37368037

Score = 123 bits (62), Expect = 5e-25
Identities = 108/122 (88%), Gaps = 1/122 (0%)
Strand = Plus / Minus

Query: 6485 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa
6544
||||||| ||||| | | ||||| || ||||| ||||||||||||||||
Sbjct: 15661703 taattgaaatttaaaaa-acaaatttaaccaacgagttgaattgaactaaaatattttaa
15661645

Query: 6545 ttacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataatac
6604
||| ||||||||| ||||| ||||||||| |||||||||||||||| |||||
Sbjct: 15661644 ttagaaaatagatatataaatttcaacaatagagaaaaatattttaaatttgaaacaatac
15661585

Query: 6605 aa 6606
||
Sbjct: 15661584 aa 15661583

Score = 123 bits (62), Expect = 5e-25
Identities = 164/198 (82%)
Strand = Plus / Plus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
7101
||||||| ||||| ||||| ||| |||| ||| ||||||||||||||||

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 2967266 aaaattaattatcacaaaatttattatgtaaatttatatgtacattaaatatatattaga
 2967325

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225

|||||
 Sbjct: 2967326 aatttttagtggttatatatagtagtattaattattttataacataattga 2967374

Score = 121 bits (61), Expect = 2e-24
 Identities = 137/161 (85%), Gaps = 6/161 (3%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 12456255 aaaattaattgtcacaaaatttattatgtaaatttacatgtgc---aatatacattaga
 12456200

Query: 5177 aatttttagtgt--tatatttagtgaaattaattattttataacataattgatgtattagt
 5234

|||
 Sbjct: 12456199 aatgtagtggttatatatatagtgacattaattattttataacataattgacctattaac
 12456140

Query: 5235 tcagttggtagagcattatgttaataatgtgaaagtcaaa 5275

|||
 Sbjct: 12456139 tcaattggtagagcatcatgctaataacctaagaagtcaaa 12456099

Score = 121 bits (61), Expect = 2e-24
 Identities = 83/89 (93%), Gaps = 1/89 (1%)
 Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
 6575

|||||
 Sbjct: 20095501 acaagttgaattgaactaaaatatttaaattacaaaatatataaaattaccaataata
 20095560

Query: 6576 gaacaaaata-tttaaatttgaaataata 6603

|||||
 Sbjct: 20095561 gaacaaaatatatttaaatttgaaataata 20095589

Score = 121 bits (61), Expect = 2e-24
Identities = 182/220 (82%), Gaps = 3/220 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
 ||||| | ||||| ||||| || || ||||| |||||
Sbjct: 23043144 aaaattaattatcacaaaatttattatttaaatttacatatgcattaaatatacattaga
23043085

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||| |||| | || | |||| ||||| ||||| ||||| ||
Sbjct: 23043084 aattatagtg--aagaatagcaacattatttattt-ataacataattggcctattagctc
23043028

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 ||||| || || || || || || || || || || ||
Sbjct: 23043027 agttggtaaagcgttggtgctaataaacttgaaagtcataaggttcgattcttgcttggacc
23042968

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttgaaaaa 5336
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 23042967 attaatTTTaaattaatttGTaacacatatatttgaaaaa 23042928

Score = 117 bits (59), Expect = 3e-23
Identities = 98/107 (91%), Gaps = 3/107 (2%)
Strand = Plus / Minus

Query: 6396 atattttatgttttatcatttttt-aagagttgaaatcctttgtatttttattttatttg
6454
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3288304 atattttatgttttatcattttttgaagagtt-aatttttttgatttttattttatttg
3288246

Query: 6455 attattataatacataattaacaacaacttaattgaaattaaaaaa 6501
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3288245 attatta-aatacataactaatcaaaaacttaattgaaattaaaaaa 3288200

Score = 117 bits (59), Expect = 3e-23
Identities = 104/119 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| | ||||||| ||| | || ||||||| |
Sbjct: 14334993 aaaattaattatcacaaaatttattatctaaatttacatactcattaaatatacattaaa
14334934

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

|| ||||| ||||| || || ||||||| ||||||| ||||||| |||||||
Sbjct: 14334933 aaatttagtattatatataacgatattaattactttataacataattgatctattagtt
14334875

Score = 117 bits (59), Expect = 3e-23
Identities = 104/119 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| | ||||||| ||||||| ||||||| ||||||| ||||||| |
Sbjct: 39654627 aaaattaattattacaaaatttattatttaaatttacatgcacattaaatatacattaaa
39654686

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

||||| | ||||| || | |||| ||||||| ||||||| ||||||| |||||||
Sbjct: 39654687 aattttaattattatatataacaattattattttattttataacataattgaactattagtt
39654745

Score = 115 bits (58), Expect = 1e-22
Identities = 88/98 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| ||||||| ||||||| ||||||| ||||||| ||| || ||||||| |||||||
Sbjct: 6402607 aaaattaattggttacaaaatttattatctaaatttacatatgcattaaatatacattaga
6402548

Query: 5177 aattttagtggttatatttagtgaaattaattattttat 5214

||||| | ||||| || || ||||||| |||||||
Sbjct: 6402547 aattttaattattatatataatgacattaattattttat 6402510

Score = 115 bits (58), Expect = 1e-22
 Identities = 129/152 (84%), Gaps = 3/152 (1%)
 Strand = Plus / Minus

Query: 6836 caatttcccaagtaatcatttgtacatggtatagatacttttcagcgtatacacaagatg
 6895
 ||||| ||||| ||||| ||||| || || || ||||| || ||||| ||
 Sbjct: 8891475 caattccccaataatccttgtacagattagagacacttttcaacatatacaactcatg
 8891416

Query: 6896 tatgtagttcctataactcatgggtgagcatgcttataaaca---acaacatgagaacaaaa
 6952
 ||||| ||||| ||||| ||||| || || || ||||| ||||| ||
 Sbjct: 8891415 tatgtagttcctataactcataatgagcatgcttataagcagcaacaacatgagaacaaga
 8891356

Query: 6953 catgtgcattttttgaaatttgtcacagtcac 6984
 ||||| ||||| ||||| || |||||
 Sbjct: 8891355 catgtgtattttttgaaatttgttatagtcac 8891324

Score = 113 bits (57), Expect = 5e-22
 Identities = 114/133 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| || || || ||||| ||||| ||
 Sbjct: 4761261 aaaattaattattacaaaatttattatttaaatttacttgcgcatataaatatacattata
 4761202

Query: 5177 aattttagtggttatattttagtgaaattaattatttataacataattgatgtattagttc
 5236
 ||||| || || || || || ||||| ||||| ||||| || || || ||
 Sbjct: 4761201 aattttagtattacatataacaacattaattatttataatataattgacttactagctc
 4761142

Query: 5237 agttggtagagc 5249
 ||||| ||||| |||||
 Sbjct: 4761141 agttggtagagc 4761129

Score = 113 bits (57), Expect = 5e-22
 Identities = 132/157 (84%)
 Strand = Plus / Minus

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236

Sbjct: 36897023 aatttttagtgttatgtataacaacattatattttttataatgtaattgactcattagctt
36897082

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtca 5273
| ||||| || || ||||| |||||
Sbjct: 36897083 atttggttagagcggtgtgctaataacctgaaagtca 36897119

Score = 111 bits (56), Expect = 2e-21
Identities = 128/152 (84%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataacataacattagaa
5177
| ||||| || ||||| ||||| || || ||||| |||||
Sbjct: 6751689 aaattaattgtcataaaaatttattatataacataacatgtgcattaaatatacattaaaa
6751630

Query: 5178 attttagtgttatatttagtgaaattaattattttataacataattgatgtattagttca
5237
|| ||||| || || ||||| ||||| ||||| ||||| |||||
Sbjct: 6751629 tttccagtgttatataatgacattaattaatttatagcataattgacctattaactca
6751570

Query: 5238 gttgggtagagcattatgttaataatgtgaaa 5269
||| ||||| ||||| ||||| |||||
Sbjct: 6751569 tttgattagagcattatgttaataatttgaaa 6751538

Score = 111 bits (56), Expect = 2e-21
Identities = 71/76 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataacataacattaga
5176
| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18142602 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattaaa
18142661

Query: 5177 aatttttagtgttatat 5192
| ||||| |||||
Sbjct: 18142662 aatttttagtgttatat 18142677

Score = 111 bits (56), Expect = 2e-21

```
Query: 5118      aaattaattgttacaaaattttattatctaaatttgcattgcacaataaatatacattagaa
5177            |||
Sbjct: 33335285 aaattaattatcacaaaatttttattgttaaatttacattgtgcattaaatatatattagaa
33335226
```

```
Query: 6977      acagtcacactacctttcatc 6997
              ||| ||||| ||| ||||| |||
Sbjct: 41584520 acagtcacaccacctttcatc 41584540
```

[illegible]

Sbjct: 5053213 aaaatttattattttaatttacatacacattaaatatacattaaaaattttaatgttata
5053154

Query: 5192 tttagtgaattaattatttttataacataattgatgtattag 5233
| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 5053153 tataataatattattttatttttataacataattgatctattag 5053112

Score = 107 bits (54), Expect = 3e-20
Identities = 111/130 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 11979854 aaaataaattatcacaaaatttattatgtcaatttacatgtacattaaataacattaga
11979795

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236
| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 11979794 aatttttagtattatatctaacgacattgattatttttataacataattgacatattagctc
11979735

Query: 5237 agttgggttag 5246
| | | | | |
Sbjct: 11979734 aattagtttag 11979725

Score = 107 bits (54), Expect = 3e-20
Identities = 122/142 (85%), Gaps = 2/142 (1%)
Strand = Plus / Minus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataattttttatc
4816
| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 24550395 taactgttaatctttttattggtacggttaagtaataattaatgaacaacaactcttcacc
24550336

Query: 4817 aatatcatagctttggttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876
| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 24550335 aatatcatagttttgcttaggaaaaat-agatttaataagtttaatagctaaagaaatccaa
24550277

Query: 4877 aagtttttcttttatttttatt 4898

|| |||||||||||| ||||
 Sbjct: 24550276 aaacttttcttttatttctatt 24550255

Score = 107 bits (54), Expect = 3e-20
 Identities = 69/74 (93%)
 Strand = Plus / Minus

Query: 7382 cttaaaacacacatgacaaatatttttattataaaacaaacacccagtgatacaacaatg
 7441

|||||||||||||| |||||||||||||||||||||||| || | ||||||||||||
 Sbjct: 36542515 cttaaaacacacatgatgaatatttttattataaaacaaacactcaataatacaacaatg
 36542456

Query: 7442 aacaacacacatga 7455
 ||||||||||||||||
 Sbjct: 36542455 aacaacacacatga 36542442

Score = 107 bits (54), Expect = 3e-20
 Identities = 63/66 (95%)
 Strand = Plus / Plus

Query: 6561 aaattacaaacaatagaacaaaatattttaaatgtgaaataatacaacaaaaattttaaaa
 6620

|||||||||||||||| |||||||||||||| |||||||||||||| ||||||||
 Sbjct: 38816418 aaattacaaacaatagaataaaaatattttaaatgtgaaataatacaacaaaaattttaaaa
 38816477

Query: 6621 tacaaa 6626
 ||||||
 Sbjct: 38816478 tacaaa 38816483

Score = 105 bits (53), Expect = 1e-19
 Identities = 110/129 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

|||||||||| | |||||||||||||| |||||| |||| || |||||||||||| |
 Sbjct: 13989724 aaaattaattatcacaaaatttattatttaaatgtgcatgattaaatatacattgaa
 13989665

[illegible]

Query: 6643 taatgttggtggcctgagcctacacaatg 6671
 ||||||| ||||| ||||||| |||||
Sbjct: 41584157 taatgttattggcttgagcctataacaatg 41584185

Score = 103 bits (52), Expect = 5e-19
Identities = 94/108 (87%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaataacattag
5175
 ||||||| || | ||||||| ||||||| ||| || ||||||| |||||
Sbjct: 9316122 aaaaattaattatcataaaaatttattatgtaaatttacatgtgcattaaatacacattaa
9316063

Query: 5176 aaattttagtggttatatttagtgaaattaattatttataacataatt 5223
 ||||||| ||||| ||| || ||||||| ||||||| |||||||
Sbjct: 9316062 aaattttagtattatatatagcgacattaattatttataacataatt 9316015

Score = 103 bits (52), Expect = 5e-19
Identities = 112/132 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
 ||||||| ||||||| ||||||| |||| || ||| | ||||||| |||||
Sbjct: 36705151 aaaattaattgttacaaaatttattatgtaaacttatatgtgtattaaataacattaaa
36705092

Query: 5177 aattttagtggttatatttagtgaaattaattatttataacataattgatgtattagttc
5236
 | ||||||| ||||| || ||||||| ||||||| || ||||| |
Sbjct: 36705091 attttagtggttatatatagtggtgttgattattttttaacataattggtctattagctt
36705032

Query: 5237 agttggtagag 5248
 |||||||
Sbjct: 36705031 agttggtagag 36705020

Score = 101 bits (51), Expect = 2e-18
Identities = 111/131 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaaatatacattaga
5176

[illegible]

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236

Sbjct: 740382 aattttaatatattatatataatgatattaattattttataataataattgatttattaattc
740441

Query: 5237 agttggttaga 5247

Sbjct: 740442 aatttggttaga 740452

Score = 101 bits (51), Expect = 2e-18
Identities = 111/131 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176

Sbjct: 24488367 ||||| ||||||| ||||||| ||||| ||| ||| ||||| |||||
24488426 aaaaattaattattacaaaattttattatttaaatttatatgcgcattaaatatacatataaa

Query: 5177 aat t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236

Sbjct: 24488427 aatttttagtggtatgtataacaacattattttattttaaaacataaattagcctattagttc
24488486

Query: 5237 agttggttaga 5247

Sbjct: 24488487 agttgattaga 24488497

Score = 99.6 bits (50), Expect = 8e-18
Identities = 110/130 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaaatatacattaga
5176

|||||

Sbjct: 34497524 aaaattatttggttacaaaatttattatgcaaacttatgtgtgtattaaatatacattaga
 34497465

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 34497464 aatttttagtggttatataaaagacattaattatttttataacatagttggcttattagctc
 34497405

Query: 5237 agttgggttag 5246

|||||
 Sbjct: 34497404 agttgggttag 34497395

Score = 99.6 bits (50), Expect = 8e-18
 Identities = 135/163 (82%), Gaps = 9/163 (5%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176

|||||
 Sbjct: 38801877 aaaattaataggttacaaaatttattatgttaaattt-----attaaatatacattaaa
 38801928

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
 5236

|| |||||
 Sbjct: 38801929 aaatttagtggttatatat-gtgacattaattatttttataacataattgatttattggctt
 38801987

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagtt 5279

||||| || || |||||
 Sbjct: 38801988 agttggctaaaacattgtgttaataacacgaaagtcaaaagtt 38802030

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 113/132 (85%), Gaps = 3/132 (2%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176

|||||
 Sbjct: 2227882 aaaattaattggttacaaaatttattatgttaaacttgtgtgtat--taaatatacattaaa
 2227939

Score = 95.7 bits (48), Expect = 1e-16
Identities = 111/132 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 940772 aaaattaattggtataaaaatatattatgtaaacttatatgtgtgttaaatacattaga
940713

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 940712 aatttttagtggtatataaatggttattaattatttttaataataattgacttattagttc
940653

Query: 5237 agttggtagag 5248
|||||
Sbjct: 940652 agttgattagag 940641

Score = 95.7 bits (48), Expect = 1e-16
Identities = 99/116 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 7971681 aaaattaattgatacaaaaatttattatgtaaacttatatgtatattaataaacattaaa
7971622

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
|||||

Sbjct: 7971621 aatttttaattgttatataacgatattaattatttttaacataattgatttatta
7971566

Score = 95.7 bits (48), Expect = 1e-16
Identities = 184/229 (80%), Gaps = 4/229 (1%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacattag
5175

|||||
Sbjct: 14440033 aaaaattaattatcataaaaatttattatgtaaatttacatctgattaaatataaattag
14439974

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

|||||

Query: 5237 agttggttagagcat 5251

|||||
Sbjct: 1059582 agttggtagagcat 1059568

Score = 93.7 bits (47), Expect = 5e-16
Identities = 110/131 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 4583084 aaaattaattgtcacaaaatttattatttaaatttacatgctcattaagtatatattaaa
4583025

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 4583024 aatttttagtggttatgtataacaacattatttactttataatataaattgggttcattagctc
4582965

Query: 5237 agttggtaga 5247
|||||
Sbjct: 4582964 agttggtaga 4582954

Score = 93.7 bits (47), Expect = 5e-16
Identities = 140/171 (81%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 9311920 aaaattaattatcacaaaatttattatttaaatttatatgcacattaaatatattaaa
9311979

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 9311980 aattttaatgttatgtataacaacattaattattttataatgtaattgggttcattagctc
9312039

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattctt 5287

|||||
Sbjct: 9312040 agttgcttagagtgttgggttaataacttgaaaatcataagttcaattctt 9312090

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 65/71 (91%)
 Strand = Plus / Minus

Query: 5153 catgcacaataaatatacattagaaattttagtggttatatttagtgaaattaattatttt
 5212
 ||||| || |||||||||||||||||||||||||||||||||| || || ||||||||||||
 Sbjct: 13423216 catgcgcattaaatatacattagaaattttagtggttatataacgacattaattatttt
 13423157

Query: 5213 ataacataatt 5223
 |||||||||
 Sbjct: 13423156 ataacataatt 13423146

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 92/107 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacgcacaataaatatacattaga
 5176
 ||||||||||| ||||||||||||| ||||||| ||||| || ||||||||||||| |
 Sbjct: 18142397 aaaattaattgtgcacaaaatttattatttaaatttacatgcgcattaaatatacattata
 18142338

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 ||||||||| |||| | ||| | |||| ||||||||||| |||||
 Sbjct: 18142337 aatttttagtattatgtatagaaacattattttattttataatataatt 18142291

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 82/94 (87%)
 Strand = Plus / Minus

Query: 6685 acatggaacatcatttttggtttacctgattcttggatatccattttggtgtgtatagag
 6744
 ||||||||||||||||| || ||||| || | ||||||||| ||| ||||||||| |||
 Sbjct: 8891612 acatggaacatcattttgattgacctgaacctcgaatatccatcttgatgtgtatagag
 8891553

Query: 6745 aggagacatgacaaccttttagaatttcttttcat 6778
 | |||| ||||||||||||| |||||||||||||
 Sbjct: 8891552 aagagatatgacaaccttttaaaatttcttttcat 8891519

Score = 91.7 bits (46), Expect = 2e-15
Identities = 67/74 (90%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttggtgaatcttcct
7352
 |||||
Sbjct: 15660866 gtgtcccatcgctcggtcaccatcccatgcgagagtccacttttctcgtagaatctccct
15660807

Query: 7353 aagctaattaattg 7366
 ||||
Sbjct: 15660806 aagccaattaattg 15660793

Score = 91.7 bits (46), Expect = 2e-15
Identities = 85/98 (86%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttgatatccattttggtgtgt
6737
 |||||
Sbjct: 15661498 atgcgacacagggaatatcgttttggtgatccggttcttgatatccatttatgtgtgt
15661439

Query: 6738 atacgagaggagacatgacaacctttagaattttctttt 6775
 ||||
Sbjct: 15661438 atacaagaggagacatgacgacctttagaattttatttt 15661401

Score = 89.7 bits (45), Expect = 8e-15
Identities = 105/125 (84%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
 |||||
Sbjct: 6125542 aaaaaataattgttacaaaatttattatataaaatttacatgtgcattaaatatacattaa
6125483

Query: 5176 aaatttttagtgttatatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 ||
Sbjct: 6125482 agatttttaattgttatataacgacattaattattttatagcataattaacctattaatt
6125423

Query: 5236 cagtt 5240
 |||||
Sbjct: 6125422 cagtt 6125418

Score = 89.7 bits (45), Expect = 8e-15
Identities = 60/65 (92%)
Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490
 ||||||||||||||| ||||||||||||||| ||||||||||||||| ||| |||||
Sbjct: 23464960 atacaacaatgaaaaacacacatgacgactacaaatcattaaataataaaaatagcaatca
23465019

Query: 7491 aataa 7495
 |||||
Sbjct: 23465020 aataa 23465024

Score = 89.7 bits (45), Expect = 8e-15
Identities = 69/77 (89%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattatTTTTatgaataaataaaaagggttttattcttaaatttgcttgag
5073
 ||||||||||||||| ||||||||||||||| | ||||||||||||||| || ||
Sbjct: 34035466 ataattttaataaattatTTTTatgagtaaataaaaagggtctcattcttaaatttgtttag
34035407

Query: 5074 ccctctcaagtccttga 5090
 ||||||||||| |||||
Sbjct: 34035406 gtctctcaagtccttga 34035390

Score = 89.7 bits (45), Expect = 8e-15
Identities = 81/93 (87%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
6737
 ||||||||||| ||||| ||||||| ||||||||||| ||||||| ||||| |||||||
Sbjct: 36544960 atgcgacacatgaaacattgttttggttgacctgattctcggatatctatttcggtgtgt
36544901

```

Query: 5073      gccctctcaagtccttgagccgcc 5096
                |  |||||
Sbjct: 10268220 qatctctcaagtccttgaqccgcc 10268197

```

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Query:  5297      attaatt 5303
          |||||
Sbjct: 23458188  attaatt 23458182

```

Query: 5236 cagttggttagagc 5249

||||| |||||
Sbjct: 29886 cagttgattagagc 29899

Score = 83.8 bits (42), Expect = 5e-13
Identities = 66/74 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||| | ||||| ||||| ||||| ||||| || ||||| |||||
Sbjct: 1059918 aaaattaattatcacaaaattaatttttaaatttacatgccattaaatatgcattaga
1059977

Query: 5177 aatttttagtggttat 5190
||||||| |||||
Sbjct: 1059978 aatttttagtggttat 1059991

Score = 83.8 bits (42), Expect = 5e-13
Identities = 72/82 (87%)
Strand = Plus / Minus

Query: 5130 acaaaaatttattatctaaatttgcacataaatatacattagaaatttttagtggtta
5189

||||||| ||||| ||| || ||||| ||||| ||||| |||||
Sbjct: 6587323 acaaaaatttattatgtaaaatttatatgtacattaaatataaaattagaaatttttagtggtta
6587264

Query: 5190 tattttagtgaaattaattattt 5211
||| ||| || |||| |||||
Sbjct: 6587263 tatatagcgatattatttattt 6587242

Score = 83.8 bits (42), Expect = 5e-13
Identities = 120/146 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||| ||||| ||||| ||||| || ||||| |||||
Sbjct: 15411478 aaaattaattgttataaaatgtattatgtaaacttatatgtatattaaatatacattaga
15411537

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| |||||||||||| || | |||||||||||| ||| |||||| | |||||||
Sbjct: 15411538 aattatagtgttatatataacgctattaattattttttaataataaacctattagttg
15411597

Query: 5237 agttggtagagcattatggttaataa 5262
 |||||||||| || || |||||
Sbjct: 15411598 gattggtagagcgttgtgctaataa 15411623

Score = 83.8 bits (42), Expect = 5e-13
Identities = 42/42 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaac 1684
 ||||||||||||||||||||||||||||||||||||||||
Sbjct: 19742756 aacgccttatccactaggtggggcggctacatggatcaac 19742797

Score = 83.8 bits (42), Expect = 5e-13
Identities = 42/42 (100%)
Strand = Plus / Minus

Query: 2416 tatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457
 ||||||||||||||||||||||||||||||||||||||||
Sbjct: 28037594 tatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 28037553

Score = 81.8 bits (41), Expect = 2e-12
Identities = 177/219 (80%), Gaps = 5/219 (2%)
Strand = Plus / Plus

Query: 5131 caaaatttattatctaaatttgcacatgcacataataacattagaaatttttagtggttat
5190
 |||||||||||| |||||| ||| || |||||||| ||||||||||||||||||||
Sbjct: 2891379 caaaatttattatgtaaatttacatatacggttaaataaaattagaaatttttagtggttat
2891438

Query: 5191 atttagtgaaattaattattttataacataattgatgtattagttcagttgggttagag-c
5249
 || ||| || | | ||| |||||||||||| | |||||||||||||||| |||
Sbjct: 2891439 atatagcgacact-atttgtttataacataatgtgtctattagttcagttgggttagagtg
2891497

Score = 81.8 bits (41), Expect = 2e-12
Identities = 152/189 (80%)
Strand = Plus / Plus

Query: 7033 ctctctccagtttaattgtctctctagactaagaattgtatgtcgcattaatcgaactcaag
 7092

||||| ||| ||||||| |||| |||| | ||||||| || |||||||
 Sbjct: 14288688 ctctctcaggtttattgtctcttagaccaagaaccgtgtgtcgcattgattgaactcaag
 14288747

Query: 7093 aacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgt
 7152

||||||||| |||| |||| | ||| |||| | || || || |||| |||| ||
 Sbjct: 14288748 aacaatgtgagtggttgcctttctgtgtgtcatcgatggcttttttagtacttgagt
 14288807

Query: 7153 ataaacttcaccaaataatcactcttgcgacttctctccccctttggttgaacaatgc
 7212

||||||||| ||| ||| || || | | ||||||||| || | || |||||||||
 Sbjct: 14288808 ataaacttggccacatgcaagcattacttcgacttctcttctcctttggttgaacaatgc
 14288867

Query: 7213 attacacct 7221

|||||||
 Sbjct: 14288868 attacacct 14288876

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 95/112 (84%), Gaps = 2/112 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaaatttattatctaaatttgcacataaatatacattaga
 5176

||||||||| |||| ||| |||| | |||| | || |||||||||
 Sbjct: 15411383 aaaattaattgttacaaaaaatagtagtaaaacttatatgcgtattatatatacattaga
 15411324

Query: 5177 aatttttagtggttatatttagtgaaattaatta--ttttataacataattgat 5226

||||||| ||||||| ||||||| ||||||| |||| |||||||||
 Sbjct: 15411323 aattttaatggttatatatagtgaaagtttaattatttttttaacataattgat 15411272

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 50/53 (94%)
 Strand = Plus / Minus

Query: 6421 agagttgaaatcctttgtatttttattttatttgattattataataacataatt 6473

||||| ||||||||| ||||||||| ||||||||| |||||||||
 Sbjct: 15661751 agagtttaaatcctttgtattttcattttatttgattattaaaataacataatt
 15661699

Score = 81.8 bits (41), Expect = 2e-12
Identities = 74/85 (87%)
Strand = Plus / Plus

Query: 5164 aatatacattagaaatTTtagtgTTtatTTtagtgaaattaattTTTtataacataatt
5223
|||||
Sbjct: 23043767 aatatacattataaaatTTtagtgTTtatataacgTcattaattTTTtataacataatt
23043826

Query: 5224 gatgtattagttcagttggTtagag 5248
|| |||
Sbjct: 23043827 aatttattaactcagttgattagag 23043851

Score = 81.8 bits (41), Expect = 2e-12
Identities = 50/53 (94%)
Strand = Plus / Minus

Query: 6421 agagttgaaatcTTTgtatTTTtattTtatttgattattataataacataatt 6473
|||||
Sbjct: 33995459 agagttgaaatcgtTtgatTTTtattTtatttgattattaaaataaataatt
33995407

Score = 79.8 bits (40), Expect = 7e-12
Identities = 88/104 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatTTtattatctaaatTtgcTgcacaataaatatacattaga
5176
|||||
Sbjct: 7680362 aaaattaattattataaaaatTTtattTTTaaatTTtatatactcattaagtatatattata
7680421

Query: 5177 aatTTtagtgTTtatatTTtagtgaaattaattTTTtataacata 5220
|||||
Sbjct: 7680422 aatTTtagtgTTtatataacaacattaattTTTtataacata 7680465

Score = 79.8 bits (40), Expect = 7e-12
Identities = 88/104 (84%)
Strand = Plus / Minus

Score = 77.8 bits (39), Expect = 3e-11
Identities = 94/111 (84%), Gaps = 1/111 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176

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Sbjct: 4056325 aaaattaattggtataaaaatttattatataaaatttatatgtgtattaaatatattaaa
4056384

Query: 5177 aatttttag-tgttatatttagtgaaattaattattttataacataattgat 5226

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Sbjct: 4056385 aattttaaatgttatatatagtgacattaataatgtttataacataattgat 4056435

Score = 77.8 bits (39), Expect = 3e-11
Identities = 66/75 (88%)
Strand = Plus / Minus

Query: 5265 tgaaagtcaaaagttcaattcttacttggatcattaattttaaattaatttgtaaaatat
5324

||||| ||||||| | ||||||| ||||||| ||||||| ||||||| ||||| ||
Sbjct: 4582829 tgaaagtcagaagttcgagtccttacttggaccattatttttaaattaattggtaacaaat
4582770

Query: 5325 atttttgaaaaaaaaa 5339

||||| |||||||
Sbjct: 4582769 atttttcaaaaaaaaaa 4582755

Score = 77.8 bits (39), Expect = 3e-11
Identities = 89/105 (84%), Gaps = 3/105 (2%)
Strand = Plus / Plus

Query: 5167 atacattagaaatttttagtggttatatttagtgaaattaattattttataacataattgat
5226

||||| || ||||||| ||||||| || | ||||| ||||||| ||||||| |||||||
Sbjct: 6823247 atacattaaaatttttagtggttatatata--acattatttattttataacataattgat
6823303

Query: 5227 gtattagttcagttgggttagagcattatggttaataatgtgaaagt 5271

||||| ||||||| || || ||||||| ||||||| |||||||
Sbjct: 6823304 ctattagctcagttagtcagaacattatgctaataacatgaaagt 6823348

Score = 77.8 bits (39), Expect = 3e-11
Identities = 105/127 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||| ||||||| ||||| || ||| | |||||||
Sbjct: 35072224 aaaattaattattacaaaatttattatgtaaacttatatgtgtattaaatatacattaga
35072283

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||| ||||||| || || || || ||||||| ||||||| ||||| |||||||
Sbjct: 35072284 aatttttagcggttatataacgatgtttattatttttaacatgattgacctattagctt
35072343

Query: 5237 agttggt 5243
|||||||
Sbjct: 35072344 agttggt 35072350

Score = 75.8 bits (38), Expect = 1e-10
Identities = 53/58 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacatta
5174

||||||| ||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 2746807 aaaattaattattataaaatttattatttaaatttacatgcacattaaatatacatta
2746750

Score = 75.8 bits (38), Expect = 1e-10
Identities = 59/66 (89%)
Strand = Plus / Minus

Query: 5168 tacattagaaatttttagtggttatatttagtgaaattaattattttataacataattgatg
5227

||||||| ||||||| ||||| || || || || ||||||| ||||||| ||||| ||
Sbjct: 2967263 tacattagaaatttttagtggttatatataataacattaattattttataatataattaatt
2967204

Query: 5228 tattag 5233
|||||
Sbjct: 2967203 tattag 2967198

Score = 75.8 bits (38), Expect = 1e-10

Identities = 50/54 (92%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAAATTATAAAAA 5349
 |||||||||||||||||| |||| |||| |||||||||||||| ||||
Sbjct: 12118638 cattaatttttaaattaattcgtaaattatatctttgAAAAAAAAATTAAAAAA
12118585

Score = 75.8 bits (38), Expect = 1e-10
Identities = 59/66 (89%)
Strand = Plus / Minus

Query: 5168 tacattagaaatttttagtggttatatttagtgaaattaattattttataacataattgatg
5227
 |||||||||||||||||| ||||| ||| | |||||||||||||||||| ||
Sbjct: 13464302 tacattagaaatttttagtattatatatagcaacattaattattttataacataattaatc
13464243

Query: 5228 tattag 5233
 |||||
Sbjct: 13464242 tattag 13464237

Score = 73.8 bits (37), Expect = 5e-10
Identities = 64/73 (87%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattagttcagttgggttagagcattatgttaat
5260
 |||||||||||||||||| || |||| |||||||||||||| | |||||||
Sbjct: 2231468 attaattattttataacataattggtctattaactcagttgggttagagtgtcatgttaat
2231527

Query: 5261 aatgtgaaagtca 5273
 || |||||||||
Sbjct: 2231528 aacatgaaagtca 2231540

Score = 73.8 bits (37), Expect = 5e-10
Identities = 49/53 (92%)
Strand = Plus / Minus

Query: 5290 ttggatcattaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAAATT 5342
 |||||||||||||||||| ||| | ||||||||||||||||||

Sbjct: 2746704 ttggatcattaatTTTTAAATTAATTGATAACACATATTTTTGAAAAAAAATT 2746652

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 92/109 (84%), Gaps = 1/109 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

||||||| | ||||||||| ||| || ||||| || ||||| ||| |
 Sbjct: 4153488 aaaattaattatcacaaaatttattatttaa-ttacctgccattaaatatattaaa
 4153546

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225

||||||| ||||| || ||| ||||||||| ||||| |||||
 Sbjct: 4153547 aatttttagtattatatataacatcattattttattttataacataattga 4153595

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 46/49 (93%)
 Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattagttcagttgggttagagc 5249

||||||| ||||||| || ||||| ||||| ||||| ||||| |||||
 Sbjct: 6402861 attaattattttataacataatttatttattagtttaagttgggttagagc 6402909

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 100/121 (82%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

||||||| | | ||||||||| ||||| || | | ||||||||| |
 Sbjct: 10435127 aaaattaattatcataaaaatttattatataaaatttaaatatattaaatatatacattaaa
 10435186

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||| | ||||| || | | ||||||||| ||||| | ||||| |||
 Sbjct: 10435187 aatttttaattattatatataatcacattaattattttataataattaacttattagttc
 10435246

Query: 5237 a 5237
 |

Sbjct: 10435247 a 10435247

Score = 73.8 bits (37), Expect = 5e-10
Identities = 49/53 (92%)
Strand = Plus / Minus

Query: 5171 attagaaatTTTtagtgTTatatttagtgaaattaattatTTTataacataatt 5223
||||| ||||||| ||||| || ||||| ||||||| ||||||| |||||
Sbjct: 12599327 attaaaaatTTTtagtgTTatataatgacattaattatTTTataacataatt
12599275

Score = 73.8 bits (37), Expect = 5e-10
Identities = 91/109 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgTTacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| ||||| || || ||||||| ||||||| ||||||| ||||| || ||||||| |||||||
Sbjct: 18654687 aaaattaattatcataaaaatttattatttaaatttacatgtgcattaaatatgcattaga
18654746

Query: 5177 aatTTTtagtgTTatatttagtgaaattaattatTTTataacataattga 5225
||||| ||||| ||||| || ||||| ||||||| ||||||| |||||||
Sbjct: 18654747 aattgtagtaatatgtatagtaacattatttattTTTataacctaattga 18654795

Score = 73.8 bits (37), Expect = 5e-10
Identities = 52/57 (91%)
Strand = Plus / Minus

Query: 7310 caccatcccatgCGagagTccactTTTcttTgtggaatcttcttaagctaattaattg
7366
||||| ||||||| ||||| ||||||| ||||||| ||||||| ||||| ||||||| |||||
Sbjct: 33994533 caccatcccatgcaagagTtcactTTTcttTgtggaatcttcttaaggtaattaattg
33994477

Score = 71.9 bits (36), Expect = 2e-09
Identities = 84/100 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaaatttattatctaaatttgcacataaataacattaga
5176

||||| ||||| || ||||| ||||| || | || ||||| ||||| |
Sbjct: 4153335 aaaattaatttttacaacatctattatttaaatttacatacgcatataatataatataa
4153276

Query: 5177 aattttagtggttatatttagtgaaattaattatttataa 5216

|| |||| ||||| || | ||||| ||||| |||||
Sbjct: 4153275 aaatttaattgttatataataaaaattatttatttataa 4153236

Score = 71.9 bits (36), Expect = 2e-09
Identities = 48/52 (92%)
Strand = Plus / Minus

Query: 5289 ctggatcattaatttttaaattaatttgtaaaatatattttgaaaaaaaaa 5340

||||| ||||| ||||| || || ||||| ||||| |||||
Sbjct: 9315958 ctggatcattagtttttaaattaatttcaaaattatatattttgaaaaaaaaa 9315907

Score = 71.9 bits (36), Expect = 2e-09
Identities = 42/44 (95%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatattttgaaaaaaaaa 5339

||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 13990148 cattaatttttaaattaatttcgtaaaacatatattttgaaaaaaaaa 13990191

Score = 71.9 bits (36), Expect = 2e-09
Identities = 208/263 (79%), Gaps = 3/263 (1%)
Strand = Plus / Plus

Query: 7033 ctctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag
7092

||||| || ||||| ||||| ||||| || || ||||| || ||||| |||||
Sbjct: 23460508 ctctctcgggtttattgtctcctagaccaagaaccgtgtgtcgtatcaatcaaactcaag
23460567

Query: 7093 aacaatgtgag-agtttgccttttctgtatgtctttcatagccttggttaataacttttg
7151

|||| ||||| | ||||| || || ||||| || | ||||| ||||| ||
Sbjct: 23460568 aacagtgtgagcattttgcctttcttctgtgcgtcttcgatgacattggttagtacatgtg
23460627

Query: 7152 tataaacttcaccaaagtgaatcactcttgcgacttctctccccctttgggtgaacaatg
 7211

Sbjct: 23460628 tataaacttggctagatgtaagcggtgttacgacttctctccctctttcattggacaatg
 23460687

Query: 7212 cattacacctagtaggttgattttaccaacaca--cattgccagattttgtgttttct
 7269

Sbjct: 23460688 cattacaccttagatatgttaattttactaacacatttattggcatatttcttgatttct
 23460747

Query: 7270 tgagtaccaaattaattaactca 7292

Sbjct: 23460748 tgagtatcgaattaatcaactca 23460770

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 51/56 (91%)
 Strand = Plus / Minus

Query: 5135 atttattatctaaatttgcattgcacaataaatatacattagaaatttttagtggttat 5190

Sbjct: 24487885 atttattatttaaatttacctgtacattaaatatacattaaaaatttttagtggttat
 24487830

Score = 69.9 bits (35), Expect = 7e-09
 Identities = 78/91 (85%), Gaps = 1/91 (1%)
 Strand = Plus / Plus

Query: 6520 gttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaacaatagaac
 6579

Sbjct: 14288500 gttgaattggactaaaatattttaaatacaaaaatattt-taaaatcaccaacaacaaaac
 14288558

Query: 6580 aaaatattttaaatttgaaataatacaacaaa 6610

Sbjct: 14288559 aaaatattttaaatttgaaacaaaacaacaaa 14288589

Score = 69.9 bits (35), Expect = 7e-09
 Identities = 66/75 (88%), Gaps = 1/75 (1%)
 Strand = Plus / Minus

|||||
Sbjct: 39183798 tcccatgcgagagttcacttttctcgtggaatctccctgagccaattaattgctagtt
39183855

Score = 65.9 bits (33), Expect = 1e-07
Identities = 36/37 (97%)
Strand = Plus / Plus

Query: 1646 gccttatccactaggtggggtcggctacatggatca 1682
|||||
Sbjct: 2114713 gccttatccactaggtgaggtcggctacatggatca 2114749

Score = 65.9 bits (33), Expect = 1e-07
Identities = 91/109 (83%), Gaps = 1/109 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 13989983 aaaattaattatcacaaaatttattatttaaatttacatgtgcattaaatatacattaaa
13990042

Query: 5177 a-atTTtagtgTTtatatTTtagtgaaattaattatTTtataacataattg 5224
| |||||
Sbjct: 13990043 atTTTTtaattattatatataacaacattatTTtattTTtataacataattg 13990091

Score = 65.9 bits (33), Expect = 1e-07
Identities = 96/117 (82%)
Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcacataaatatacattagaaatttttagtgTTtata
5191
|||||
Sbjct: 14520437 aaaatttattacgtaaatttataatgtgcattaaatatattaaaaaaatttagtattata
14520496

Query: 5192 ttttagtgaaattaattatTTtataacataattgatgtattagttcagttggTTtagag
5248
| || |
Sbjct: 14520497 tataataacataaattatTTtataatataaatttattagatcagttggTTtagag
14520553

Score = 65.9 bits (33), Expect = 1e-07
Identities = 77/91 (84%), Gaps = 3/91 (3%)

Query: 1643 aacgccttatccactaggtggggtcggcta 1673
 ||||||||||||||||||||||||||||
Sbjct: 27816347 aacgccttatccactaggtggggtcggcta 27816377

Score = 60.0 bits (30), Expect = 7e-06
Identities = 51/58 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacatta
5174
 ||||||||| | |||||||||||||||||||||||| | || | |||||||||||||
Sbjct: 6402807 aaaattaattatcacaaaatttattatctaaatttacatgtgtattaaatatacatta
6402864

Score = 60.0 bits (30), Expect = 7e-06
Identities = 42/46 (91%)
Strand = Plus / Plus

Query: 5145 taaatttgcacataaatatacattagaaatttttagtggtat 5190
 ||||||| |||| | |||||||||||||||||||||||||
Sbjct: 23043607 taaatttagatgcgcattaaatatacattagaaatttttagtggtat 23043652

Score = 60.0 bits (30), Expect = 7e-06
Identities = 60/70 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||||||||||||||||||||||||| | || | |||||||||||||
Sbjct: 35186998 aaaattaattgttacaaaatttattatataaacatatatatgtattaaatatacattaga
35186939

Query: 5177 aatttttagtg 5186
 |||||||||
Sbjct: 35186938 aatttttagtg 35186929

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggctcggctacatggatca 1682
 |||||
Sbjct: 37818485 ttatcccactaggtgaggtcggctacatggatca 37818452

Score = 58.0 bits (29), Expect = 3e-05
Identities = 32/33 (96%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataa 5046
 |||||
Sbjct: 4009558 ataattttaataaattattttataaataaataa 4009590

Score = 58.0 bits (29), Expect = 3e-05
Identities = 29/29 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggc 1671
 |||||
Sbjct: 6742095 aacgccttatcccactaggtggggctcggc 6742067

Score = 58.0 bits (29), Expect = 3e-05
Identities = 59/69 (85%)
Strand = Plus / Plus

Query: 5266 gaaagtcaaaagttcaattcttacttggatcattaattttaattaatttgtaaaatata
5325
 |||||
Sbjct: 9758889 gaaagtcacaagttcgactcctatttgaatcattgattttaattaattcataaaacata
9758948

Query: 5326 tttttgaaa 5334
 |||||
Sbjct: 9758949 tttttgaaa 9758957

Score = 58.0 bits (29), Expect = 3e-05
Identities = 59/69 (85%)
Strand = Plus / Plus

Query: 6938 aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
 6997

|||||
 Sbjct: 23460415 aacatgagaacaaggcatgtgcaatttctggaatttgccatagtcgcaccacctttcatc
 23460474

Query: 6998 tagcttgac 7006

||||
 Sbjct: 23460475 tagcctgac 23460483

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 65/77 (84%)
 Strand = Plus / Plus

Query: 7680 gaaaacatagtaattatttctcatcatcttgcagcatacatgccctgtactgaaaacaa
 7739

|||||
 Sbjct: 23470836 gaaaacatagtcattatgtctttatcatcgtgaaacatgcatgtcctatactggacacaa
 23470895

Query: 7740 tcaccaacaaatgatac 7756

|||||
 Sbjct: 23470896 tcaccaacaaatgatac 23470912

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 50/56 (89%), Gaps = 2/56 (3%)
 Strand = Plus / Minus

Query: 6382 ttaatttcttatgcatattttatgttttatcattttttaagagttgaaatcctttg 6437

|||||
 Sbjct: 33995813 ttaattttttatgcatttttt--gttttattatcttttaagagttgaaatcctttg
 33995760

Score = 56.0 bits (28), Expect = 1e-04
 Identities = 88/107 (82%), Gaps = 2/107 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176

|||||
 Sbjct: 740129 aaaattaattatcataaaaatttattatgttaaattt--atgtgtattaaatataatataaa
 740072

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 || |||| | ||||| || | | ||||| ||||| ||||| |||||
Sbjct: 740071 aaatttaattattatatataataatattaattattttataacataatt 740025

Score = 56.0 bits (28), Expect = 1e-04
Identities = 28/28 (100%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaa 5335
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 900723 attaatttgtaaaatatatttttgaaaa 900750

Score = 56.0 bits (28), Expect = 1e-04
Identities = 50/56 (89%), Gaps = 1/56 (1%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1367260 cattaatttttaaattaattcataacacatatatttt-aaaaaaaaattataaaaaaa
1367314

Score = 56.0 bits (28), Expect = 1e-04
Identities = 43/48 (89%)
Strand = Plus / Plus

Query: 6038 gagttttttttatccaaataataaaaaaaaaattaattatttacccaaa 6085
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8890340 gagttttttttatttaaataataataaataaattaattatttatccaaa 8890387

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtggggctcggctacatgga 1679
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11179252 acaaatgccttatcccactaagtggggctcggctaaatgga 11179213

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattg 5156
 |||||
Sbjct: 13464342 aaaattaattgtcacaaaatttattatgttaaatttacattg 13464303

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 6431 tcctttgtattttttattttatttgattattataataacata 6470
 |||||
Sbjct: 23459919 tcctttggatttttcattttatttgattattataataacata 23459958

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 7309 ccaccatcccatgagagagtcacttttcttgaggaaatct 7348
 |||||
Sbjct: 23460804 ccaccatcccatgagagagttcatttttcttgaggaaatct 23460843

Score = 56.0 bits (28), Expect = 1e-04
Identities = 83/99 (83%), Gaps = 3/99 (3%)
Strand = Plus / Minus

Query: 6899 gtagttcctataactcatgggtgagcatgcttataaacaacaac-atg--agaacaaaacat
6955
 |||||
Sbjct: 31759492 gtagttcctgtactcatgggtgaacatgcttacaagcaacaacaatgaaagagcatggcat
31759433

Query: 6956 gtgcattttttgaaatttgtcacagtcacactaccttttc 6994
 |||||
Sbjct: 31759432 gtgcaattttgggaatttgcacagtcacaccaccttttc 31759394

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)

Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| |||||
Sbjct: 2682042 aaaattaattattacaaaatttattatttaaattt 2682008

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| |||||
Sbjct: 10434896 aaaattaattgtcaaaaaatttattatctaaattt 10434862

Score = 54.0 bits (27), Expect = 4e-04
Identities = 36/39 (92%)
Strand = Plus / Plus

Query: 7309 ccaccatcccatgcgagagtcacttttcttgtggaatc 7347
 ||||| ||||| ||||| |||||
Sbjct: 20066748 ccaccatctgatgcgagagtcatttttcttgtggaatc 20066786

Score = 52.0 bits (26), Expect = 0.002
Identities = 44/50 (88%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattagttcagttggtagagca 5250
 ||||| ||||| || ||||| ||||| |||||
Sbjct: 900255 attaattattttatgatataattaatttattaactcagttggtagagca 900206

Score = 52.0 bits (26), Expect = 0.002
Identities = 38/42 (90%)
Strand = Plus / Plus

Query: 5136 tttattatctaaatttgcacataaataacattagaa 5177
 ||||| ||||| ||||| || ||||| |||||
Sbjct: 1060011 tttattatttaaatttacatgcgcattaaataacattagaa 1060052

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 3851 gatagcaattgtaggaagtgggtatattgg 3880
|||||
Sbjct: 2374373 gatagcaattgtaggaagtggatatattgg 2374344

Score = 52.0 bits (26), Expect = 0.002
Identities = 50/58 (86%)
Strand = Plus / Plus

Query: 5164 aatatacattagaaattttagtggttatatttagtgaaattaattatattataacataa
5221
|||||
Sbjct: 3686179 aatatacattaggaattttagtagtatatatattgacgtaattatattttaacataa
3686236

Score = 52.0 bits (26), Expect = 0.002
Identities = 35/38 (92%)
Strand = Plus / Plus

Query: 6892 gatgtatgtagttcctataactcatgggtgagcatgctta 6929
|||||
Sbjct: 20095866 gatgtatttagttcctgtactcatgggtgaccatgctta 20095903

Score = 52.0 bits (26), Expect = 0.002
Identities = 44/50 (88%)
Strand = Plus / Plus

Query: 7190 ctccccctttggttgaacaatgcattacacctagtaggttgattttac 7239
|||||
Sbjct: 20096104 ctcccacttttgttgaacaatgccttacaccttatatatgttgattttac 20096153

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 5297 attaattttaattaatttgtaaaatatattttt 5330

|||||
 Sbjct: 41414280 attaatTTTaaattattttgtaaaagatatTTTt 41414247

Score = 52.0 bits (26), Expect = 0.002
 Identities = 41/46 (89%)
 Strand = Plus / Plus

Query: 6505 atattttaactgacaagttgacttgaactaaaatattttaaattacaa 6550
 |||||
 Sbjct: 41584005 atatttaaccaagaagtagaattgaactaaaatattttaaattacaa 41584050

Score = 50.1 bits (25), Expect = 0.007
 Identities = 59/69 (85%), Gaps = 1/69 (1%)
 Strand = Plus / Minus

Query: 5165 atatacattagaaatTTtagtgTTtatTTtagtgaaattaatta-tTTTataacataatt
 5223
 |||||
 Sbjct: 29626 atatacattagaaatcTTtagtgTTtatataacgacgTTaattattTTTTTTtaacataaat
 29567

Query: 5224 gatgtatta 5232
 |||
 Sbjct: 29566 gatctatta 29558

Score = 50.1 bits (25), Expect = 0.007
 Identities = 25/25 (100%)
 Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaag 5572
 |||||
 Sbjct: 5792228 ttttttttaaaaaaaaaaaaaacaag 5792204

Score = 50.1 bits (25), Expect = 0.007
 Identities = 34/37 (91%)
 Strand = Plus / Plus

Query: 1646 gccttatccactaggtggggctcggctacatggatca 1682
 |||||
 Sbjct: 6254785 gccttatccactagatgggatcggctatatggatca 6254821

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 6041 ttttttttatccaaataataaaaaaaaaattaattatt 6077
 ||||| ||||||||| || |||||||||
Sbjct: 6991540 tttttttaatccaaataatacaataaattaattatt 6991576

Score = 50.1 bits (25), Expect = 0.007
Identities = 41/45 (91%), Gaps = 1/45 (2%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaaattataaaaaaat 5352
 ||||| ||||||| || ||||||| ||||||| |||||||
Sbjct: 13423075 attaatttgtaaaacatagttttgaaa-aaaaattaaaaaaaaaat 13423032

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 5294 atcattaatttttaaattaatttgtaaaatatattttt 5330
 ||||| ||||||| || ||||| |||||||
Sbjct: 15411204 atcattaatttttaaattattttttaaacatatattttt 15411168

Score = 50.1 bits (25), Expect = 0.007
Identities = 67/81 (82%)
Strand = Plus / Minus

Query: 2656 aaaacatggaattcatcctcaacatctctctcggttaacttatgaatcaaggttatcaaca
2715
 ||||| ||||||| || || | ||||||||| || ||||||| | ||||| |||||
Sbjct: 31113486 aaaacacggaattcgtcttcgagatctctctcggtgactcgtgaatccaaggtaccaaca
31113427

Query: 2716 tacacgtgagtcatcatttca 2736
 ||||| ||| ||||| |||||
Sbjct: 31113426 tacacgcgagacatcttttca 31113406

Score = 50.1 bits (25), Expect = 0.007
Identities = 97/120 (80%), Gaps = 2/120 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| |||| | ||||| |||| | || | | ||||| ||||
Sbjct: 35187097 aaaattaagtgttataaaatttattatataaaacttatatatgtattaaatataacaataga
35187156

Query: 5177 aattttagtggttata--tttagtgaaattaattattttataacataattgatgtattagt
5234
 ||||| |||| | || ||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 35187157 aattttagtgatatatgtatatattgacgctaattattttttaacataattgaattattagt
35187216

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 5290 ttggatcattaatttttaaattaatt 5314
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38662712 ttggatcattaatttttaaattaatt 38662736

Score = 50.1 bits (25), Expect = 0.007
Identities = 43/48 (89%), Gaps = 2/48 (4%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatata--tttttgaaaaaaaaa 5340
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39654803 tcattaatttttaaattaattttttaaataacttttttttaaaaaaaaaa 39654850

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggctcggtacatggat 1680
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41046627 cttatcccactaggtgaggttggtacatggat 41046659

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatggatcaa 1683
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1385693 cttatctcactaggtgaggtcgggttacatggatcaa 1385728

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattatatttatgaataaataaaa 5048
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3586390 aataattttaataaactatttgatgtataaataaaa 3586355

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4795541 aacttttttttaaaaaaaaaaaaaa 4795564

Score = 48.1 bits (24), Expect = 0.026
Identities = 54/64 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| ||||| | | ||||| ||||| ||||| ||||| || ||||| ||||| |||||
Sbjct: 6751713 aaaattaattatcataaaatatattatataaatttacatgtgcattaaatatacattaaa
6751772

Query: 5177 aatt 5180
 ||||
Sbjct: 6751773 aatt 6751776

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatatttt 5330
|||||
Sbjct: 7971513 tcattaatttttaaattatttcataaaatatatatttt 7971478

Score = 48.1 bits (24), Expect = 0.026
Identities = 87/108 (80%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacatag
5175
|||||
Sbjct: 8556825 aaaaattaattatcataaaattaattatataaaatttacatgtatattaaatatatattaa
8556884

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataatt 5223
||| ||| | ||||| || | |||||
Sbjct: 8556885 aaaatttaatatatatataacaactttaattattttataatataatt 8556932

Score = 48.1 bits (24), Expect = 0.026
Identities = 39/44 (88%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatattttgaaaaaaaaattataaaaaaa 5351
||||| ||| |||||
Sbjct: 13464173 attaatttgcaaaacatatattttgaaaaaatatttaaaaaaaa 13464130

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 3851 gatagcaattgtaggaagtgggttatatt 3878
|||||
Sbjct: 25177230 gatagcaattgtaggaagtggatatatt 25177257

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)

Strand = Plus / Plus

```
Query: 6134      caccgatttcttaattacatttttttat 6161
              |||||
Sbjct: 36537139 caccgatttcttaattgcatttttttat 36537166
```

Score = 48.1 bits (24), Expect = 0.026
Identities = 57/67 (85%), Gaps = 2/67 (2%)
Strand = Plus / Minus

```
Query: 7229      gttgattttaccaacacacat--tgccagattttgtgttttcttgagtaccaaattaatt
7286
              |||||
Sbjct: 36544863 gttgattttaccatcacacatatgggctaattttgtgttttcttgagtattgaattaatt
36544804
```

```
Query: 7287      aactcag 7293
              |||||
Sbjct: 36544803 gactcag 36544797
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

```
Query: 5542      ttgaacttttttttaaaaaaaaaaaaaa 5568
              |||||
Sbjct: 2737615  ttgaccttttttttaaaaaaaaaaaaaa 2737641
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

```
Query: 6038      gagttttttttatccaaataata 6060
              |||||
Sbjct: 3288689  gagttttttttatccaaataata 3288667
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6751785 aaaattaattatcacaaaatttattatgtaaattt 6751819

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8357744 aaaattaattatcataaaaatttattatctaaattt 8357710

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10841244 aaaatcaattgttataaaaatttattatataaaattt 10841278

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaaac 5569
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 13724904 ctttttttttaaaaaaaaaaaaaaac 13724882

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 6440 tttttatttttatttgattattataata 6466
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 14037592 tttttatttttatttgattattataata 14037618

Score = 46.1 bits (23), Expect = 0.10

Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaacaagtaa 5575
 ||||||||||||||||||||| |||||
Sbjct: 14770938 ttttttttaaaaaaaaaaaaaactagtaa 14770912

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatattttt 5330
 ||||||||||||||||| || |||||||||||||||||
Sbjct: 15411656 cattaatttttaaattattttcataaaatatattttt 15411690

Score = 46.1 bits (23), Expect = 0.10
Identities = 80/99 (80%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
6737
 ||||||| ||||||||||||| ||||| | ||| | ||||||||||||||||| || | || ||
Sbjct: 20095680 atgcgatacatggaacattgctttggctgacctgggttcttggatatccaattcgatgcgt
20095739

Query: 6738 atacgagaggagacatgacaaccttttagaatttcttttc 6776
 | ||| ||||||||| ||| ||| ||||||||| |||||
Sbjct: 20095740 gtgcgaaaggagacaagacgacccttagaatttttttttc 20095778

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 2580 taaataatatttttttttctttct 2602
 |||||||||||||||||||||||||
Sbjct: 24279457 taaataatatttttttttctttct 24279435

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 5555 taaaaaaaaaaaaacaagtaataaaaaaacta 5585
 |||||
Sbjct: 25226383 taaaaaaaaaaaaacaaataactaaaaaacta 25226413

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 33232888 cttatccccctaggtgaggtcgactacatggatca 33232854

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 37295271 aacttttttttaaaaaaaaaaaaaa 37295293

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 38461837 ctttttttttaaaaaaaaaaaaaaac 38461859

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 532876 ctttttttttaaaaaaaaaaaaaa 532897

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 6529 aactaaaatattttaaattacaaaata 6554
|||||||
Sbjct: 840724 aactaaaatattttaaatacaaaaata 840749

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
|||||||
Sbjct: 935247 tttttttttaaaaaaaaaaaaaaac 935226

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgttttaa 6286
|||||||
Sbjct: 1718721 ttttttttttgttttgttttaa 1718742

Score = 44.1 bits (22), Expect = 0.41
Identities = 43/50 (86%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattt 5211
|||||||
Sbjct: 2542614 taaatatatattaaaaattttagtatttatataataataattaattattt 2542565

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5297 attaatTTTaaattaatttgtaaaatatat 5326
|||||||
Sbjct: 2967145 attaatTTTaaattaattcgtaaaacatat 2967116

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6568 aaacaatagaacaaaatattta 6589
|||||||
Sbjct: 3288095 aaacaatagaacaaaatattta 3288074

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 4065025 cttttttttaaaaaaaaaaaaaa 4065004

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 1197 tcatacctttctcggccttttg 1218
|||||||
Sbjct: 6509077 tcatacctttctcggccttttg 6509056

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttta 6286
|||||||
Sbjct: 6721124 ttttttttttgttttgtttta 6721103

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 6140 tttcttaattacatttttttatacatttagaaat 6173

||||| ||||||| ||||| ||||
Sbjct: 8892173 tttcttaactacatttttttatatatatttaaaaat 8892140

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 2581 aaataatatattttttttctttct 2602
||||| ||||||| ||||| ||||
Sbjct: 10249990 aaataatatattttttttctttct 10250011

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
||||| ||||||| ||||| ||||
Sbjct: 10851989 ctttttttttaaaaaaaaaaaaaa 10852010

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttatta 5142
||||| ||||||| ||||| ||||
Sbjct: 12599499 aaaattaattggtcacaaaatttatta 12599524

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 1807 ctccatctggtctactctcctcacta 1832
||||| ||||||| ||||| ||||
Sbjct: 15371260 ctccatctggtctactctccttacta 15371285

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||||||
Sbjct: 19305455 tttttttttaaaaaaaaaaaaaaac 19305434

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Plus

Query: 6892 gatgtatgtagttcctataactcatggtgagcatgctta 6929
 ||||||| ||||| | ||||| ||||| |||||
Sbjct: 20066344 gatgtattagttcttgactcatggtgaccatgctta 20066381

Score = 44.1 bits (22), Expect = 0.41
Identities = 40/46 (86%)
Strand = Plus / Minus

Query: 6266 ttttttttgttttgttttaaaattgtttgtatttttatttttttt 6311
 ||||||| | |||| || ||||| ||||| ||||| |||||
Sbjct: 31770599 tttttttgttttttatttaaaaattatttgttttttatttttttt 31770554

Score = 44.1 bits (22), Expect = 0.41
Identities = 46/54 (85%)
Strand = Plus / Plus

Query: 7041 agttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaa 7094
 ||||||| ||||| || ||||| || ||||| || || ||||| |||||
Sbjct: 39183519 agttaattgtctcctggattaagaactgtgtgtcgtatcaaccaaactcaagaa
39183572

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 39608132 cttttttttaaaaaaaaaaaaaaa 39608153

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 1650 tatcccactaggtggggctcggctacatggatcaa 1683
 |||||
Sbjct: 39826828 tatcccactagatggagtcagctacatggatcaa 39826861

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtg 1663
 |||||
Sbjct: 1191235 aacgccttatcccactaggtg 1191215

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 2079085 actttttttttaaaaaaaaaa 2079105

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttatt 5141
 |||||
Sbjct: 2958043 aaaattaattgtcacaaaatttatt 2958019

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6055 ataataaaaaaaaaattaattatttta 6079
 |||||
Sbjct: 3701664 ataataaaaaaaaaattaattatttta 3701688

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 4346010 tttttttttaaaaaaaaaaaaaa 4345990

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5308 attaatTTgtaaaatatTTTTtgaaaaaaaaa 5340
 ||||| ||||| |||||
Sbjct: 4605748 attaatTggtaaaacatatTTTTgaagaaaaaa 4605780

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 4749382 tttttttttaaaaaaaaaaaaaa 4749362

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6265 ttttttttttGttttGttttaaaat 6289
 ||||| |||||
Sbjct: 4878811 tttttattttGttttGttttaaaat 4878787

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6266 tttttttttgttttgtttta 6286
|||||||
Sbjct: 6745793 tttttttttgttttgtttta 6745813

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 8000968 ttttttttaaaaaaaaaaaaaa 8000948

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 8283199 ttttttttaaaaaaaaaaaaaa 8283179

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 9391604 ttttttttaaaaaaaaaaaaaa 9391584

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 3664 taaaaaaaaatttagatcactt 3684
|||||||
Sbjct: 10306897 taaaaaaaaatttagatcactt 10306877

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 1236      tatctgttcttatcagtttaa 1256
               |||||
Sbjct: 10420262 tatctgttcttatcagtttaa 10420242
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
               |||||
Sbjct: 11130857 ttttttttaaaaaaaaaaaaaa 11130837
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5567
               |||||
Sbjct: 11548812 ctttttttttaaaaaaaaaaaaaa 11548832
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5551      tttttaaaaaaaaaaaaaaaca 5571
               |||||
Sbjct: 11808048 tttttaaaaaaaaaaaaaaaca 11808068
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 4985      attattattttactttgatacatta 5009
               |||||
Sbjct: 12353210 attattattttattttgatacatta 12353234
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 36/41 (87%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggtacaaaatttattatctaaatttgcag 5156
 ||||| | | ||||| ||||| |||||
Sbjct: 12599371 aaaaattaattatcagaaaatttattatataaaatttacctg 12599331

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 6277 ttgtgttttaaaattgtttgtatttttatttttt 6309
 ||||| | | ||||| ||||| |||||
Sbjct: 12865559 ttgtgttttaaaactattcgtatttttatttttt 12865591

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6395 catattttatgttttatcatttttt 6419
 ||||| ||||| ||||| |||||
Sbjct: 15662189 catatttttgttttatcatttttt 15662165

Score = 42.1 bits (21), Expect = 1.6
Identities = 31/33 (93%), Gaps = 1/33 (3%)
Strand = Plus / Minus

Query: 6042 tttttttatccaaataata-aaaaaaaaattaat 6073
 ||||| ||||| ||||| |||||
Sbjct: 18899058 ttttttaatccaaataatacaaaaaaaattaat 18899026

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5726 tttttacattggttgtaaaac 5746
 ||||| ||||| ||||| |||||
Sbjct: 19263538 tttttacattggttgtaaaac 19263558

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 6434 tttgtatTTTTtattttatttgattattataataacata 6470
 ||||| ||||| |||||
Sbjct: 20095439 tttgtatTTTTtattttatttgattattaaattacata 20095475

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 7319 atgCGagagTccactTTTTctTgtggaatc 7347
 |||| | ||||| |||||
Sbjct: 20096252 atgcaagagTccattTTTTctTgtggaatc 20096280

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaaac 5569
 ||||| ||||| |||||
Sbjct: 20100151 ttttttttaaaaaaaaaaaaaaac 20100131

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaa 5568
 ||||| ||||| |||||
Sbjct: 20200985 ttttttttaaaaaaaaaaaaaaa 20200965

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 20866007 ctttttttttaaaaaaaaaaaaaa 20866027

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 21620445 ttttttttttaaaaaaaaaaaaaa 21620465

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4880 tttttcttttatttttatttt 4900
 |||||
Sbjct: 27319819 tttttcttttatttttatttt 27319799

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6328 atttgtgttctgtttaaattgaaaa 6352
 ||||| |||||
Sbjct: 28326043 atttgttttctgtttaaattgaaaa 28326019

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttt 6284
 |||||
Sbjct: 29174740 cttttttttttgttttgtttt 29174760

Score = 42.1 bits (21), Expect = 1.6
Identities = 39/45 (86%)

Strand = Plus / Plus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggTTa 5245
 |||||
Sbjct: 31667262 attaattatTTTtTTaataataattgataaattagTTtaattggTTa 31667306

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4788 taataattaataagtaataat 4808
 |||||
Sbjct: 32180867 taataattaataagtaataat 32180887

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4788 taataattaataagtaataat 4808
 |||||
Sbjct: 32214370 taataattaataagtaataat 32214350

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 6276 TTTTgtTTTtaaattgTTTgtatTTTtattTTT 6308
 |||||
Sbjct: 32973393 TTTTgtTTTaattgTTTgtgtatTTTtattTTT 32973361

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 TTTTTTTTtaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 33764827 TTTTTTTTtaaaaaaaaaaaaaa 33764807

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 33764812 tttttttttaaaaaaaaaaaaaa 33764832

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 33885242 cttttttttaaaaaaaaaaaaaa 33885262

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 7071 tgtcgcattaatcgaactcaagaacaatgtgag 7103
 ||||| || |||||
Sbjct: 33994771 tgtcgcacgattgaactcaagaacaatgtgag 33994739

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 34248342 tttttttttaaaaaaaaaaaaaa 34248322

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6049 atccaaataataaaaaaaaaaat 6069
 |||||
Sbjct: 37454659 atccaaataataaaaaaaaaaat 37454639

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 37822414 actttttttttaaaaaaaaaa 37822394

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattttagtggtat 5190
 |||||
Sbjct: 38662584 taaatatacatcagaaattttaagtgtat 38662612

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 39153582 tttttttttaaaaaaaaaa 39153562

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 40081315 tttttttttaaaaaaaaaa 40081335

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 40566066 tttttttttaaaaaaaaaaaaaa 40566086

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 7392 acatgacaaatatttttatt 7411
 ||||||||||||||||||
Sbjct: 48449 acatgacaaatatttttatt 48468

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 6267 ttttttttgttttgttttaaaattgttt 6294
 |||| |||||||||||||| |||||
Sbjct: 164905 ttttatttgttttgttttaaaattgttt 164932

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5307 aattaatttgtaaaatatattttt 5330
 ||||||||| |||||||||||||
Sbjct: 1644642 aattaatttgaaaaatatattttt 1644619

Score = 40.1 bits (20), Expect = 6.4
Identities = 44/52 (84%)
Strand = Plus / Minus

Query: 1864 aaaccacctaagtctattttccaccatcttctctacaataggcgctactcca 1915
 ||||||| || | ||| ||||||| ||||||||| |||||
Sbjct: 1723422 aaaccaccaaggcaagtttcaaccatcttttctacaatagggtgctgctcca 1723371

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgta 5318
|||||||
Sbjct: 2681866 tcattaatttttaaattaatctgta 2681843

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6288 attgtttgtatTTTTATTTTTTTT 6311
|||||||
Sbjct: 3287911 attgtttgtatTTTaaTTTTTTTT 3287888

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6378 attcttaatttcttatgcat 6397
|||||||
Sbjct: 3510754 attcttaatttcttatgcat 3510735

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 4788 taataattaataagtaataattttttat 4815
|||||||
Sbjct: 3580032 taataattaataattaatatttttttat 3580005

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6060 aaaaaaaaaattaattatttta 6079
|||||||
Sbjct: 3653266 aaaaaaaaaattaattatttta 3653247

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 4090327 actttttttttaaaaaaaaaa 4090308

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5199 aaattaattattttataacataat 5222
 |||||
Sbjct: 4386618 aaattaattattttataacataat 4386641

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3890 tgtaaaaatgatttttttta 3909
 |||||
Sbjct: 4813900 tgtaaaaatgatttttttta 4813881

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5567
 |||||
Sbjct: 5084238 tttttttttaaaaaaaaaa 5084257

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5567
 |||||
Sbjct: 5468149 tttttttttaaaaaaaaaa 5468130

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatg 1677
 ||||| ||||| ||||| ||||| |||||
Sbjct: 6529428 gccttatcccacttggtgaggttggtacatg 6529397

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||| ||||| ||||| ||||| |||||
Sbjct: 6593135 ttttttttaaaaaaaaaaaaaa 6593116

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 ||||| ||||| ||||| ||||| |||||
Sbjct: 7566488 ctttttttttaaaaaaaaaaaaaa 7566469

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttatttt 4900
 ||||| ||||| ||||| ||||| |||||
Sbjct: 7664875 ttttcttttatttttatttt 7664856

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 8000953 tttttttttaaaaaaaaaaaaaa 8000972

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6154 tttttttatacatttagaaat 6173
 |||||||
Sbjct: 8890531 tttttttatacatttagaaat 8890550

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6287 aattgtttgtatttttattttttt 6310
 ||||||| |||||||
Sbjct: 9076880 aattgtttttatttttattttttt 9076903

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 9542804 tttttttttaaaaaaaaaaaaaa 9542823

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2581 aaataatattttttttcttt 2600
 |||||||
Sbjct: 10356032 aaataatattttttttcttt 10356051

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Plus

```
Query: 5306      aaattaatttgtaaaatatatattt 5329
               ||||| |||||
Sbjct: 11068805 aaattaatttgtaaaatatatattt 11068828
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaacaa 5571
               ||||| |||||
Sbjct: 11130856 ttttttttaaaaaaaaaaaaaacaa 11130833
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaa 5566
               ||||| |||||
Sbjct: 11263305 ctttttttttaaaaaaaaaaaaa 11263286
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaacaa 5571
               ||||| |||||
Sbjct: 11558952 tttttttataaaaaaaaaaaaaacaa 11558975
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 335       aagaggaaaaatacatagaaaaaag 358
               ||||| |||||
Sbjct: 11865708 aagaggaaaaatccatagaaaaaag 11865731
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6551 aatagatatgaaattacaaa 6570
 |||||
Sbjct: 11880127 aatagatatgaaattacaaa 11880108

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 11989950 actttttttttaaaaaaaaaa 11989969

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6438 tattttttattttatttgattatta 6461
 |||||
Sbjct: 12532970 tattttttattttatttgattatta 12532993

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6191 atttcaaaatgttcattttttttt 6214
 |||||
Sbjct: 12771258 atttcaaacatgttcattttttttt 12771281

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6061 aaaaaaaattaattattttac 6080
 |||||
Sbjct: 14286835 aaaaaaaattaattattttac 14286854

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 14297725 tttttttttaaaaaaaaaaaaaa 14297706

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 14767146 ttttttttcaaaaaaaaaaaaaaaca 14767169

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 14852141 tttttttttaaaaaaaaaaaaaa 14852160

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatttttgaaaa 5335
 |||||
Sbjct: 14864479 attaatttgtagaaaatatatttttgaaaa 14864452

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 14976352 ctttttttttaaaaaaaaaa 14976333

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 3903 ttttttaaattgtaaaaatttcaca 3926
 |||||
Sbjct: 14980594 ttttttaaattgtgaaaatttcaca 14980571

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaa 5567
 |||||
Sbjct: 15556106 ttttttttttaaaaaaaaaa 15556125

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 acttttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 15814645 acttttttttttaaaaaaaaaa 15814664

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3973 tataaaaatttaattgttttt 3992
 |||||
Sbjct: 16471855 tataaaaatttaattgttttt 16471874

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 1289      attaaatttattttttgaag 1308
               ||||||||||||||||
Sbjct: 18140927 attaaatttattttttgaag 18140908
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5298      ttaatttttaaattaatttgtaaaa 5321
               |||||||||||||||| ||||
Sbjct: 18153189 ttaatttttaaattaatttctaaaa 18153212
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5551      ttttttaaaaaaaaaaaaaaca 5570
               ||||||||||||||||
Sbjct: 19928476 ttttttaaaaaaaaaaaaaaca 19928495
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 3900      atttttttttaaattgtaaaaa 3919
               ||||||||||||||||
Sbjct: 20535543 atttttttttaaattgtaaaaa 20535562
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6051      ccaaataataaaaaaaaaaatt 6070
               ||||||||||||||||
Sbjct: 20708201 ccaaataataaaaaaaaaaatt 20708220
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6039 agttttttttatccaaataa 6058
|||||||
Sbjct: 22441541 agttttttttatccaaataa 22441560

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 23813928 ttttttttaaaaaaaaaaaaaa 23813947

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1203 ctttctcggccttttggctaagat 1226
||||| |||||||
Sbjct: 24018186 ctttctcggccttttggctaagat 24018163

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6439 atttttattttatttgatta 6458
|||||||
Sbjct: 25800570 atttttattttatttgatta 25800551

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
|||||||
Sbjct: 25803067 ctttttttttaaaaaaaaaaaaaa 25803048

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 26699821 ctttttttttaaaaaaaaaa 26699840

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 28265205 ttttttttttgttttgtttt 28265186

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5324 tatttttgaaaaaaaaattataaaaaa 5351
 ||||| ||||| |||||
Sbjct: 29312279 tatttttgaaaaaaaaattatacaaaaa 29312306

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4433 aatagttcaatttttttttt 4452
 |||||
Sbjct: 29668754 aatagttcaatttttttttt 29668773

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 3764 attaatgaaaattcaccaaacaaa 3787
 ||||| ||||||||||||||||
Sbjct: 30687908 attaaagaaaattcaccaaacaaa 30687885

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaacaa 5571
 ||||||| ||||||||||||||||
Sbjct: 31404896 ttttttttcaaaaaaaaaaaaaacaa 31404873

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaaca 5570
 ||||||| ||||||||||||||||
Sbjct: 31546126 ctttttttttaaaaaaaaaaaaaaca 31546103

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5333 aaaaaaaaattataaaaaaatgaat 5356
 ||||||| ||||||||||||||||
Sbjct: 31560938 aaaaaaaataataaaaaaatgaat 31560961

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 32046983 ttttttttttaaaaaaaaaaaaaa 32047002

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5571
                |||||||
Sbjct: 32225181 tttttttttaaaaaaaaaataaaca 32225158
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5322      tatatttttgaaaaaaaaaat 5341
                |||||||
Sbjct: 33306474 tatatttttgaaaaaaaaaat 33306455
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5322      tatatttttgaaaaaaaaaat 5341
                |||||||
Sbjct: 33335111 tatatttttgaaaaaaaaaat 33335092
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                |||||||
Sbjct: 33785212 tttttttttaaaaaaaaaaaaaa 33785231
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5330      tgaaaaaaaaattataaaaaa 5349
                |||||||
Sbjct: 33854825 tgaaaaaaaaattataaaaaa 33854844
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 33967399 ttttttttttgttttgtttt 33967418

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 35632354 tttttttttaaaaaaaaaa 35632335

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaattaa 6072
 ||||||||||||||||||
Sbjct: 35845516 aaataataaaaaaaaaattaa 35845497

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5020 ttaataaattattttatgaataaa 5043
 |||||||||||||||||| |||||
Sbjct: 37364994 ttaataaattattttattaataaa 37364971

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 37995806 tttttttttaaaaaaaaaa 37995787

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5542 ttgaactttttttttaaaaaaaaaa 5565
 ||||| |||||||||||||||||
Sbjct: 38173899 ttgaattttttttttaaaaaaaaaa 38173922

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6367 atatggttgtaattcttaat 6386
 |||||||||||||||||
Sbjct: 38404389 atatggttgtaattcttaat 38404408

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6413 attttttaagagttgaaatccttt 6436
 ||||| |||||||||||||||||
Sbjct: 38904963 atttttgaagagttgaaatccttt 38904940

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||||||||||||||| |||||
Sbjct: 38974733 ttttttttaaaaaaaaaaagaaaca 38974756

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6492 aattaaaaaatatatattta 6511
 ||||||||||||||||||
Sbjct: 39072710 aattaaaaaatatatattta 39072729

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6056 taataaaaaaaaaattaatta 6075
 ||||||||||||||||||
Sbjct: 39410835 taataaaaaaaaaattaatta 39410816

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5564
 ||||||||||||||||||
Sbjct: 39510622 aacttttttttaaaaaaaaaa 39510641

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaaaaac 5569
 ||||||||| ||||||||||||||
Sbjct: 39654833 acttttttttaaaaaaaaaaaaac 39654856

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5539 ttattgaacttttttttaaaaaaaaaa 5566
 ||||||| | ||||||||||||||
Sbjct: 39760834 ttattgtaatttttttttaaaaaaaaaa 39760807

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
                ||||||||||||||||
Sbjct: 39967184 ttttttttaaaaaaaaaaaaaa 39967203
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaaaca 5571
                ||||||| ||||||||||||||||
Sbjct: 40081316 ttttttttaaaaaaaaaaaaaaaca 40081339
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaaaca 5571
                |||||||||||||||| |||||
Sbjct: 40165731 ttttttttaaaaaaaaaaataaaca 40165708
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaaaca 5571
                |||||||||||||||| |||||
Sbjct: 40165887 ttttttttaaaaaaaaaaataaaca 40165864
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 4881      ttttcttttatttttatttt 4900
                ||||||||||||||||
Sbjct: 40439240 ttttcttttatttttatttt 40439221
```

Score = 40.1 bits (20), Expect = 6.4
 Identities = 20/20 (100%)
 Strand = Plus / Minus

Query: 4880 tttttcttttatttttattt 4899
 |||||
 Sbjct: 40625385 tttttcttttatttttattt 40625366

Score = 40.1 bits (20), Expect = 6.4
 Identities = 26/28 (92%)
 Strand = Plus / Plus

Query: 5301 attttaaattaatttgtaaaatatattt 5328
 |||||
 Sbjct: 41087129 attttaaattaatttcgtaaaatacattt 41087156

Score = 40.1 bits (20), Expect = 6.4
 Identities = 26/28 (92%)
 Strand = Plus / Plus

Query: 6434 tttgtatttttattttatttgattatta 6461
 ||||
 Sbjct: 41184762 tttgcatttttattttattttattatta 41184789

>[gb|CM000838.1](#) Glycine max chromosome 5, whole genome shotgun sequence
 Length = 41936504

Score = 1600 bits (807), Expect = 0.0
 Identities = 813/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 41059122 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
 41059181

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||
 Sbjct: 41059182 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 41059241

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 41059242 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
41059301

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

|||||
Sbjct: 41059302 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
41059361

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttctta
1942

|||||
Sbjct: 41059362 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttctta
41059421

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 41059422 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41059481

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 41059482 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
41059541

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 41059542 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
41059601

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 41059602 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
41059661

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 41059662 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
41059721

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 41059722 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
41059781

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 41059782 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41059841

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 41059842 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
41059901

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 41059902 tctgcaaaaagcatgcatctcggcgctatctcttg 41059936

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 29183640 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
29183581

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 29183580 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
29183521

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 29183520 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
29183461

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||

Sbjct: 29183460 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
29183401

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 29183400 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
29183341

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 29183340 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29183281

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 29183280 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
29183221

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 29183220 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
29183161

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 29183160 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
29183101

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 29183100 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
29183041

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 29183040 ataatatggtctcctattttcacctctgagttagaaaccctcatttcttttgttgaactta
29182981

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 29182980 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
29182921

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 29182920 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29182861

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 29182860 tctgcaaaaagcatgcatctcggcgctatctcttg 29182826

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 40272646 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
40272587

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 40272586 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
40272527

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 40272526 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
40272467

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctatatt
1882

|||||
Sbjct: 40272466 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctatatt
40272407

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 40272406 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
40272347

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 40272346 attttatcctgtcgagtccttaccacacacccaccgcaacatcctcatctccgctacacct
40272287

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 40272286 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
40272227

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 40272226 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40272167

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 40272166 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
40272107

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 40272106 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
40272047

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 40272046 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
40271987

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 40271986 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
40271927

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 40271926 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
40271867

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 40271866 tctgcaaaaagcatgcatctcggcgctatctcttg 40271832

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 460322 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
460263

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 460262 tcaagtatcatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
460203

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 460202 atagtctttttgggtcttcctctacctcgaattgtttgtcttctctccatctgggtctact
460143

Query: 1823 ctcttcactacagagtctaccgggtcttctctctacatgccccaaaccacctaaggtctattt
1882
|||
Sbjct: 460142 ctcttcactacagagtctatcgggtcttctctctacatgccccaaaccacctaaggtctattt
460083

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 460082 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
460023

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 460022 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
459963

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccgggt
2062
|||||

Sbjct: 459962 actttattctcatgttggctcttgaccgcccacattctgttcggtacaaaatcgccggt
459903

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 459902 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
459843

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 459842 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
459783

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 459782 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
459723

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 459722 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
459663

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 459662 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
459603

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 459602 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
459543

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 459542 tctgcaaaaagcatgcatctcggcgctatctcttg 459508

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 803578 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
803637

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 803638 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
803697

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 803698 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
803757

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 803758 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
803817

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942

|||||
Sbjct: 803818 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
803877

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctcgcgtacacct
2002

|||||
Sbjct: 803878 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctcgcgtacacct
803937

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 803938 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
803997

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 803998 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
804057

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 804058 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccct
804117

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

| |||||
Sbjct: 804118 tgaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
804177

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 804178 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
804237

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 804238 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
804297

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 804298 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
804357

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 804358 tctgcaaaaagcatgcatctcggcgctatctcttg 804392

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 13816618 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
13816559

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 13816558 tcaagtaccatacttctatccaaatcattaagttcgagattctttttgataacctctctt
13816499

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 13816498 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
13816439

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 13816438 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
13816379

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 13816378 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
13816319

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 13816318 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
13816259

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 13816258 actttattctcatgttgggtcttgactgccaacattctgttccgtacaaaatcgccgggt
13816199

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 13816198 ctaccgtagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
13816139

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 13816138 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
13816079

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 13816078 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 13816019

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
 2302

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 Sbjct: 13816018 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
 13815959

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 13815958 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 13815899

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 13815898 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 13815839

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 13815838 tctgcaaaaagcatgcatctcgcgctatctcttg 13815804

Score = 1552 bits (783), Expect = 0.0
 Identities = 807/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 26671185 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 26671244

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 26671245 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 26671304

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 26671305 atagtctttttgggtcttcctctgccttgaattgtttgtcttctctccatctgggtctact
 26671364

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 26671365 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
26671424

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 26671425 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
26671484

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 26671485 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
26671544

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 26671545 actttattctcatgttggtctcttgactgccaacattctgttccgtacaaaatcgccggt
26671604

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 26671605 cttaccgcagtcgataaaaactttcccttagcttgattggtacctttgcatcacataac
26671664

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 26671665 acccccgatgcttttctccatgtcatccatcctgcttgaatgcgatgattcacatccct
26671724

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 26671725 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
26671784

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||
Sbjct: 26671785 atagtatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
26671844

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

Sbjct: 26671845 |||||
26671904 cattccatataactccgatttgcttctgcttaggtgaaagccatgtgtttctagagctcgt

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

Sbjct: 26671905 |||||
26671964 ctccaagtttccaacctcttattcaactcctccctcgactctccaaggaggactatgtca

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

Sbjct: 26671965 |||||
tctgcaaaaagcatgcatctcggcgctatctcttg 26671999

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

Sbjct: 31192545 |||||
31192604 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 31192605 |||||
31192664 tcaagtaccatacttctatccaaatcatthaagttcgagatcctttttgataacctctctt

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

Sbjct: 31192665 |||||
31192724 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

Sbjct: 31192725 |||||
31192784 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 31192785 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
31192844

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 31192845 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
31192904

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 31192905 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgctcggt
31192964

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 31192965 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
31193024

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 31193025 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
31193084

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 31193085 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
31193144

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 31193145 ataatatggtctcctattttcacctttgagttagaaaccctccttcttttattgaactta
31193204

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 31193205 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
31193264

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 31193265 ctccaagttttctaacctctcattcaactcctccctcgactctccaaggaggactatgtca
31193324

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 31193325 tctgcaaaaagcatgcatctcagcgctatctcttg 31193359

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 30583314 aacgccttatccactaggtggggtcgactacatggatcaacttccgccataatgttcta
30583255

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 30583254 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
30583195

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 30583194 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatttgggtctact
30583135

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||||
Sbjct: 30583134 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
30583075

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 30583074 tccaccatcttctctacaatagggtgctactccaaccctctctctaataagcttcgtttcta
30583015

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 30583014 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
30582955

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 30582954 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
30582895

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 30582894 cttaccgcagtcgataaaaactttccctttagcttgatcggtaccttagcatcacataac
30582835

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 30582834 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
30582775

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 30582774 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
30582715

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 30582714 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
30582655

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 30582654 cattccatatactccgatttgcttctgcttaggtgaaagccatgtgtttctagagctcgt
30582595

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 30582594 ctccaaatttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
30582535

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|
Sbjct: 30582534 tatgcaaaaacatgcatctcggcgctatctcttg 30582500

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 31566236 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
31566295

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 31566296 tcaagtaccatacttttatccaaatcattaagtttgagatcctttttgataacctctctt
31566355

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 31566356 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
31566415

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcattt
1882

|||||
Sbjct: 31566416 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcattt
31566475

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 31566476 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
31566535

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 31566536 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
31566595

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 31566596 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
31566655

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 31566656 cttaccgcagtc caatagaat tttccctttagcttgatcggtatctttgcatcacataac
31566715

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 31566716 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
31566775

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatat ttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 31566776 tcaatttccccatcatcctgtattacagacccaagatat ttaaaccgtgtgacttgaggg
31566835

Query: 2243 ataatatgggtctcctat tttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 31566836 ataatatgggtctcctat tttcacctctgagttagaaaccctccttcttttgttgaactta
31566895

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 31566896 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
31566955

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 31566956 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
31567015

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 31567016 tctgcaaaaagcatgcatctcggcgctatctcttg 31567050

Score = 1521 bits (767), Expect = 0.0
Identities = 803/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 26253976 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
26253917

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 26253916 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
26253857

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 26253856 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctggtctact
26253797

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 26253796 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
26253737

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 26253736 tccaccatcttctctacaataggcgctactccaaccctctctctaataactcgttttcta
26253677

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 26253676 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
26253617

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 26253616 actttagtctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
26253557

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 26253556 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
26253497

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

|||||
Sbjct: 26253496 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
26253437

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 26253436 tcaatttctccatcatcctgtattaccgacccaagatatttaaaccgtgtgacttgaggg
26253377

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 26253376 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
26253317

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 26253316 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
26253257

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 26253256 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
26253197

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 26253196 tctgcaaaaagcatgcatctcggcgctatctcttg 26253162

Score = 1519 bits (766), Expect = 0.0
Identities = 793/802 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 3899319 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
3899378

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 3899379 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
3899438

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 3899439 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctgggtctact
3899498

Query: 1823 ctcttcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 3899499 ctcttcactacagagtctaccggtcttcttttctacatgtccaaaccacctaagtctattt
3899558

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

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Sbjct: 3899559 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
3899618

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 3899619 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
3899678

Query: 2003 actttattctcatgttggtcttggaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 3899679 actttattctcatgttgactcttggaccgccccaacattctgttccgtacaaaatcgccggt
3899738

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 3899739 tttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
3899798

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 3899799 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
3899858

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 3899859 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
3899918

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 3899919 ataatatggtctcctatattttcacctctgagttagaaaccctcctttttttgttgaactta
 3899978

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 3899979 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagcgctcgt
 3900038

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 3900039 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 3900098

Query: 2423 tctgcaaaaagcatgcatctcg 2444

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 Sbjct: 3900099 tctgcaaaaagcatgcatctcg 3900120

Score = 1513 bits (763), Expect = 0.0
 Identities = 802/815 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 29169668 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 29169727

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 29169728 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
 29169787

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 29169788 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 29169847

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

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 Sbjct: 29169848 ctctcactacagagtctaccgggtcttcttctctacatgcccaaaccacctaagtctattt
 29169907

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 29169908 tccaccatcttctctacaataggcggtactccaaccctctctctaatagcttcgtttcta
29169967

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 29169968 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29170027

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 29170028 actttattctcatggttggtctcttgaccaccaacattctgttccgtacaaaatcgccagt
29170087

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 29170088 cttaccgcagtcgcgataaaaactttccctttagcttgagcggtacctttgcatcacataac
29170147

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

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Sbjct: 29170148 acccccgatgcttttctccatttcatccatcctgcttgaatgcaatgattcacatcccct
29170207

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 29170208 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
29170267

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 29170268 ataatatggtctcctattttcacctttgagttagaaaccctccttcttttgttgaactta
29170327

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 29170328 cattccatatactccgatttgcttctgcttaggcgaaagtcatgtgtttctagagctcgt
29170387

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 29170388 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29170447

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 29170448 tctgcaaaaagcatgcatctcagcgctatctcttg 29170482

Score = 1511 bits (762), Expect = 0.0
Identities = 801/814 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 6878799 aacgccttatcccactaagtggggctcggctacatggatcaacttccgccataatgttcta
6878740

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 6878739 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
6878680

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 6878679 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
6878620

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 6878619 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
6878560

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttcta
1942

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Sbjct: 6878559 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttcta
6878500

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 6878499 attttatcctgtcaagtcttaccacacatccaccgcaacatcctcatctccgctacacct
6878440

Query: 2003 actttattctcatggttggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 6878439 actttagtctcatggttggtcttgaccgcccacattctgttccgtacaaaatcgccggt
6878380

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 6878379 cttatcgagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
6878320

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 6878319 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
6878260

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 6878259 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
6878200

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 6878199 ataatatggtctcctattttccactctgagttagataccctcctacttttgttgaactta
6878140

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 6878139 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgt
6878080

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 6878079 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
6878020

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctctt 2456

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Sbjct: 6878019 tctgcaaaaagcatgcatctcggcgctatctctt 6877986

Score = 1503 bits (758), Expect = 0.0
Identities = 800/815 (98%), Gaps = 8/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 32295919 aacgccttatcccgttaggtggggtcggctacatggatcaacttccgccataatgttcta
32295860

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 32295859 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttgataacctctctt
32295800

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 32295799 atagtctttttggatcttctctgcctcgaattgtttgtcttctctccatctgggtctact
32295740

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882
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Sbjct: 32295739 ctctcactacagagtctactgggtcttctctctacatgccccaaaccacctaagtctattt
32295680

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
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Sbjct: 32295679 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
32295620

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 32295619 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
32295560

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 32295559 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
32295500

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 32295499 cttatcgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
32295440

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 32295439 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
32295380

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 32295379 tcaatttctccatcatcct-----gaccaagatatattaaaccgtgtgacttgaggg
32295328

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 32295327 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
32295268

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 32295267 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
32295208

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 32295207 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
32295148

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 32295147 tctgcaaaaagcatgcatctcggcgctatctcttg 32295113

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 36876492 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
36876551

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 36876552 tcaagtaccatactgctatccaaatcattaagttcgagatccttcttaataacctctctt
36876611

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 36876612 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
36876671

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 36876672 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
36876731

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 36876732 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
36876791

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 36876792 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
36876851

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 36876852 actttagtctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
36876911

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 36876912 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
36876971

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 36876972 acccccgatgcttttctccatttcattcatcctgcttgaatgcgatgattcacatccct
36877031

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 36877032 tcagtttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
36877091

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 36877092 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
36877151

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 36877152 cattccatataactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
36877211

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 36877212 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
36877271

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 36877272 tctgcaaaaagcatgcatctcggcgctatctcttg 36877306

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 32276432 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
32276373

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 32276372 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
32276313

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 32276312 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
32276253

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

|||||
Sbjct: 32276252 ctctcactacagagtctaccggtcttctctctacatgcccagccacctaagtctattt
32276193

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 32276192 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
32276133

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 32276132 attttatcctgtcgagtcttaccacacatccaccgcaacatccttatctccgctacacct
32276073

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 32276072 actttagtctcatgttggctcttgaccgcctaacattctgttccgtacaaaatcgccggt
32276013

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 32276012 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
32275953

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 32275952 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
32275893

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 32275892 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
32275833

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 32275832 ataatatggtctcctattttcacctctgagttagataccctcctactcttgttgaactta
32275773

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 32275772 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagatctcgt
32275713

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 32275712 ctctaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
32275653

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

||||| |||||
Sbjct: 32275652 tctgcaaatagcatgcatctcggcgctatctcttg 32275618

Score = 1481 bits (747), Expect = 0.0
Identities = 795/811 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 35180571 aacgccttatcccactaggtggggtcggctacatggatcaacttccaccataatgttcta
35180630

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 35180631 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
35180690

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 35180691 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
35180750

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 35180751 ctcttactacagagtctatcggtcttctctctacatgccccaaaccacctaagtctattt
35180810

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 35180811 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
35180870

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 35180871 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
35180930

Query: 2003 actttattctcatggttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 35180931 actttagtctcatggttggtctcttgaccgccccaacattctgttcggtacaaaatcggtcggt
35180990

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 35180991 cttaccgcagtcgataaaaactttctcttagcttgatcggtacctttgcatcacataac
35181050

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 35181051 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
35181110

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

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Sbjct: 35181111 tcaatttctccatcatcctgtattacagacccaagatatattaaccggtgtaacttgaggg
35181170

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 35181171 ataatatgatctcctattttcacctctgagttagataccctcctacttttggtgaactta
35181230

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 35181231 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
35181290

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 35181291 ctccaagtttccaacctctcattcaactcctccctcgactccccaaggaggactatgtca
35181350

Query: 2423 tctgcaaaaagcatgcatctcggcgctatct 2453

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Sbjct: 35181351 tctgcaaaaagcatgcatctcggcgctatct 35181381

Score = 1477 bits (745), Expect = 0.0
Identities = 796/813 (97%)
Strand = Plus / Plus

Query: 1645 cgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatc
1704

|||||
Sbjct: 26687289 cgccttatcccattaggtggggtcggctacatggatcaacttccgccataatgttctatc
26687348

Query: 1705 aagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttat
1764

|||||
Sbjct: 26687349 aagtaccatacttctatccaaatcattaagttcagagatcctttttgataacctctcttat
26687408

Query: 1765 agtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctactct
1824

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Sbjct: 26687409 agtctttttgggtcttctctacctcgaattgtttgccttctctccatctgggtctactct
26687468

Query: 1825 cctcactacagagtctaccggtcttctctctacatgcccaccacctaaggtctattttc
1884

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Sbjct: 26687469 cctcactatagagtctaccggtcttctctctacatgcccaccacctaaggtctattttc
26687528

Query: 1885 caccatcttctctacaataggcgctactccaaccttctctctaatagcttcgtttcta
1944

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Sbjct: 26687529 caccatcttctctacaataggcgctactccaaccttctctctaatagcttcgtttataat
26687588

Query: 1945 tttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctac
2004

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Sbjct: 26687589 tttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctac
26687648

Query: 2005 tttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggtct
2064

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Sbjct: 26687649 tttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggtct
26687708

Query: 2065 taccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataaac
2124

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Sbjct: 26687709 taccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataaac
26687768

Query: 2125 ccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttc
2184

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Sbjct: 26687769 ccccgatgcttttctccatttcatccatcctacttgaatgcgatgattcacatccccttc
26687828

Query: 2185 aatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgagggat
2244

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Sbjct: 26687829 aatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgagggat
26687888

Query: 2245 aatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaacttaca
2304

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Sbjct: 26687889 aatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaacttaca
26687948

Query: 2305 ttccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtct
2364

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Sbjct: 26687949 ttccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagaactcgtct
26688008

Query: 2365 ccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatc
2424

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Sbjct: 26688009 ccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcata
26688068

Query: 2425 tgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 26688069 tgcaaaaagcatgcatcttggcgctatctcttg 26688101

Score = 1473 bits (743), Expect = 0.0
Identities = 797/815 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 11919824 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
11919765

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 11919764 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
11919705

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 11919704 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
11919645

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 11919644 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagttctattt
11919585

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 11919584 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
11919525

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 11919524 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
11919465

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 11919464 acttttagtctcatgttggctcttgaccgaccaacattttgttccgtacaaaatcgctggt
 11919405

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 11919404 cttaccgcagtcgataaaaactttcccttagcttgatcggtacttttgcacataac
 11919345

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

|||||
 Sbjct: 11919344 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacataccct
 11919285

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 11919284 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 11919225

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 11919224 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
 11919165

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 11919164 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 11919105

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 11919104 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 11919045

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 11919044 tctgcaaaaagcatgcatctcgacgctatctcttg 11919010

Score = 1465 bits (739), Expect = 0.0
 Identities = 796/815 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 7725796 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
7725737

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 7725736 tcaagtaccataacttctatccaaatcattaagttcgagatcctttttgataacctctctt
7725677

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 7725676 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
7725617

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 7725616 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
7725557

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttcta
1942

|||||
Sbjct: 7725556 tccaccatattctctataataggcgctactccaaccctctctctaatagtcttcttcta
7725497

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 7725496 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
7725437

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 7725436 actttattctcatgttgggtcttgaccgcccacattttgttccgtacaaaatcaccgat
7725377

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 7725376 cttaccgccgtccgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
7725317

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||

Sbjct: 7725316 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
7725257

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||

Sbjct: 7725256 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
7725197

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 7725196 ataatatgggtctcctattttccctctgagttagaaaccctcatttcttttgttgaactta
7725137

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 7725136 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgt
7725077

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 7725076 ctccaagtttccaacctcattcaactcctccctcgactctccaaggaggactatgtca
7725017

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||

Sbjct: 7725016 tctgcaaaaagcatgcatatcggcgctatctcttg 7724982

Score = 1441 bits (727), Expect = 0.0
Identities = 794/815 (97%), Gaps = 1/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 34250703 aacgccttatccactaggtgggaacggctacatggatcaacttccgccataatgttcta
34250762

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 34250763 tcaagtaccatactttctatccaaatcattaagttcgagatccttcttgataacctctctt
34250822

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 34250823 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
34250882

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 34250883 ctctcactacagagtctaccggtcttctctctacatgctcaaaccacctaagttctattt
34250942

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

| |||||
Sbjct: 34250943 ttcaccatcttctctacaataggcgctactccaaccctctctctaatagtccgtttcta
34251002

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 34251003 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcctctccgctacacct
34251062

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 34251063 acttttagtctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
34251122

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 34251123 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
34251182

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

| |||||
Sbjct: 34251183 a-ccccgatgttttctccatttcatccatcctgcttgaatgcgatgattcacattccct
34251241

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 34251242 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
34251301

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 34251302 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaaactta
34251361

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 34251362 cattccatataactccgatttggttttctgcttaggcgaaagccatgtgtttctagagctcgt
34251421

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 34251422 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
34251481

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 34251482 tctgcaaaaagcatgcatctcggcgctatctcttg 34251516

Score = 1425 bits (719), Expect = 0.0
Identities = 792/815 (97%), Gaps = 1/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 41251303 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
41251362

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 41251363 tcaagtaccatatttttatccaaatcattaagttcgagatccttcttgagaacctctctt
41251422

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 41251423 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
41251482

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 41251483 ttctcactacagagtctaccggttttctctctacatgcccaaaccacctaagtctattt
41251542

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 41251543 tccatcatcttctctacaataggcgctactccaaccctctctctaataactccgtttcta
41251602

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 41251603 attttatcctgttgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41251662

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 41251663 actttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
41251722

Query: 2063 ctaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 41251723 ctaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
41251782

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 41251783 acccccgatgcttttctccatttcatccat-ctgcttgaatgcgatgattcacatcccct
41251841

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 41251842 tcaatttctccatcatcctatattacagaccaagatatttaaaccgtgtgacttgaggg
41251901

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 41251902 ataatatggtctcctattttccacctctgagttagataccctcctacttttgttgaaactta
41251961

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362
|||||
Sbjct: 41251962 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41252021

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
|||||
Sbjct: 41252022 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
41252081

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||
Sbjct: 41252082 tctgtaaaaagcatgtatctcggcgctatctcttg 41252116

Score = 1412 bits (712), Expect = 0.0
Identities = 745/756 (98%)
Strand = Plus / Plus

Query: 1701 tatcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctc
1760
|||||
Sbjct: 38301553 tatcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctttc
38301612

Query: 1761 ttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtcta
1820
|||||
Sbjct: 38301613 ttatagtctttttgggtcttcctctgcctcaaattgtttgccttttctccatctgggtcta
38301672

Query: 1821 ctctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1880
|||||
Sbjct: 38301673 ctctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
38301732

Query: 1881 tttccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttc
1940
|||||
Sbjct: 38301733 tttccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttc
38301792

Query: 1941 taattttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacac
2000
|||||

Sbjct: 38301793 taattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacac
38301852

Query: 2001 ctactttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccg
2060

|||||
Sbjct: 38301853 ctactttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccg
38301912

Query: 2061 gtcttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacacata
2120

|||||
Sbjct: 38301913 gtcttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacacata
38301972

Query: 2121 acacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccc
2180

||| |||||
Sbjct: 38301973 acatccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccc
38302032

Query: 2181 cttcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgag
2240

||||| |||||
Sbjct: 38302033 cttcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgag
38302092

Query: 2241 ggataaatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaact
2300

||||| |||||
Sbjct: 38302093 ggataaatatgatctcctattttcacctctgagttagaaaccctccttcttttgttgaact
38302152

Query: 2301 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
2360

||||| |||||
Sbjct: 38302153 tacattccatataactccgatttgcttctgcttaagcgaaaaccatgtgtttctagagctc
38302212

Query: 2361 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
2420

|||||
Sbjct: 38302213 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
38302272

Query: 2421 catctgcaaaaagcatgcatctcggcgctatctctt 2456

|||||
Sbjct: 38302273 catctgcaaaaagcatgcatctcggcgctatctctt 38302308

Score = 1390 bits (701), Expect = 0.0
Identities = 710/713 (99%)
Strand = Plus / Plus

Query: 1745 tttttgataacctctcttatagtccttttgggtcttcctctgcctcgaattgtttgtctt
1804
|||||
Sbjct: 16952133 tttttgataacctctcttatagtccttttgggtcttcctctgcctcgaattgtttgcctt
16952192

Query: 1805 ctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgccca
1864
|||||
Sbjct: 16952193 ctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgccca
16952252

Query: 1865 aaccacctaagtctattttccaccatcttctctacaataggcgctactccaaccctctct
1924
|||||
Sbjct: 16952253 aaccacctaagtctattttccaccatcttctctacaataggcgctactccaaccctctct
16952312

Query: 1925 ctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgcaacatc
1984
|||||
Sbjct: 16952313 ctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgcaacatc
16952372

Query: 1985 ctcatctccgctacacctactttattctcatgttgggtcttgaccgccaacattctgtt
2044
|||||
Sbjct: 16952373 ctcatctccgctacacctactttattctcatgttgggtcttgaccgccaacattttgtt
16952432

Query: 2045 ccgtacaaaatcgccggtcttaccgcagtcgataaaaactttccctttagcttgatcggt
2104
|||||
Sbjct: 16952433 ccgtacaaaatcgccggtcttaccgcagtcgataaaaactttccctttagcttgatcggt
16952492

Query: 2105 acctttgcatcacataaacacccccgatgcttttctccatttcatccatcctgcttgaatg
2164
|||||
Sbjct: 16952493 acctttgcatcacataaacacccccgatgcttttctccatttcatccatcctgcttgaatg
16952552

Query: 2165 cgatgattcacatccccttcaatttcccatcatcctgtattacagacccaagatattta
2224

|||||
Sbjct: 16952553 cgatgattcacatccccttcaatttctccatcatcctgtattacagacccaagatattta
16952612

Query: 2225 aaccgtgtgacttgagggataatatggtctcctattttcacctctgagttagaaaccctc
2284

|||||
Sbjct: 16952613 aaccgtgtgacttgagggataatatggtctcctattttcacctctgagttagaaaccctc
16952672

Query: 2285 cttcttttgttgaacttacattccatataactccgatttgcttctgcttaggcgaaagcca
2344

|||||
Sbjct: 16952673 cttcttttgttgaacttacattccatataactccgatttgcttctgcttaggcgaaagcca
16952732

Query: 2345 tgtgtttctagagctcgtctccaagtttccaacctctcattcaactcctccctcgactct
2404

|||||
Sbjct: 16952733 tgtgtttctagagctcgtctccaagtttccaacctctcattcaactcctccctcgactct
16952792

Query: 2405 ccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 16952793 ccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg
16952845

Score = 1374 bits (693), Expect = 0.0
Identities = 696/697 (99%)
Strand = Plus / Minus

Query: 1761 ttatagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtcta
1820

|||||
Sbjct: 32743686 ttatagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtcta
32743627

Query: 1821 ctctcctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctat
1880

|||||
Sbjct: 32743626 ctctcctcactacagagtctaccggtcttctctctgacatgccccaaaccacctaagtctat
32743567

Query: 1881 tttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttc
1940

|||||
Sbjct: 32743566 tttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttc
32743507

Query: 1941 taattttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacac
2000

|||||
Sbjct: 32743506 taattttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacac
32743447

Query: 2001 ctactttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccg
2060

|||||
Sbjct: 32743446 ctactttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccg
32743387

Query: 2061 gtcttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacata
2120

|||||
Sbjct: 32743386 gtcttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacata
32743327

Query: 2121 acacccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatccc
2180

|||||
Sbjct: 32743326 acacccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatccc
32743267

Query: 2181 cttcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgag
2240

|||||
Sbjct: 32743266 cttcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgag
32743207

Query: 2241 ggataaatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaact
2300

|||||
Sbjct: 32743206 ggataaatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaact
32743147

Query: 2301 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
2360

|||||
Sbjct: 32743146 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
32743087

Query: 2361 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
2420

|||||

Sbjct: 32743086 gtctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
32743027

Query: 2421 catctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||||||||||||||||||||||||||||||||
Sbjct: 32743026 catctgcaaaaagcatgcatctcggcgctatctcttg 32742990

Score = 1358 bits (685), Expect = 0.0
Identities = 694/697 (99%)
Strand = Plus / Minus

Query: 1761 ttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtcta
1820
||||||||||||||||||||||||||||||||||||
Sbjct: 16401285 ttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtcta
16401226

Query: 1821 ctctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1880
||||||||||||||||||||||||||||||||||||
Sbjct: 16401225 ctctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
16401166

Query: 1881 tttccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttc
1940
||||||||||||||||||||||||||||||||||||
Sbjct: 16401165 tttccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttc
16401106

Query: 1941 taattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacac
2000
||||||||||||||||||||||||||||||||||||
Sbjct: 16401105 taattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacac
16401046

Query: 2001 ctactttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccg
2060
||||||||||||||||||||||||||||||||||||
Sbjct: 16401045 ctactttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccg
16400986

Query: 2061 gtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacata
2120
||||||||||||||||||||||||||||||||||||
Sbjct: 16400985 gtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacata
16400926

Query: 2121 acacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccc
 2180

|||||

Sbjct: 16400925 acacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccc
 16400866

Query: 2181 cttcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgag
 2240

|||||

Sbjct: 16400865 cttcaatttccccatcatcctgtattacaaacccaagatatattaaaccgtgtgacttgag
 16400806

Query: 2241 ggataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaact
 2300

|||||

Sbjct: 16400805 ggataatatggtctcctattttccacctctgagttagaagccctccttcttttgttgaact
 16400746

Query: 2301 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
 2360

|||||

Sbjct: 16400745 tacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
 16400686

Query: 2361 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
 2420

|||||

Sbjct: 16400685 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
 16400626

Query: 2421 catctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||

Sbjct: 16400625 catctgcaaaagagcatgcatctcggcgctatctcttg 16400589

Score = 1318 bits (665), Expect = 0.0
 Identities = 713/729 (97%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggtacatggatcaacttccgccataatgttcta
 1702

|||||

Sbjct: 2028850 aacgccttatcccactaggtgggggtcggtacatggatcaacttccgccataatgttcta
 2028909

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
Sbjct: 2028910 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
2028969

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 2028970 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
2029029

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 2029030 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
2029089

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 2029090 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
2029149

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 2029150 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2029209

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 2029210 actttagtctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2029269

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 2029270 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2029329

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

|||||
Sbjct: 2029330 acccccgatgcttttctccatttcatccatcctgcttgaaagcgatgattcacatcccct
2029389

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||

Sbjct: 2029390 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2029449

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 2302

|||||
 Sbjct: 2029450 ataatatggtctcctattttcacctctgagttagataccctcctacttttggtgaactta
 2029509

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 2029510 cattccatatactccgatttgcttctgcttagacgaaagccatgtggttccagagctcgt
 2029569

Query: 2363 ctccaagtt 2371
 |||||

Sbjct: 2029570 ctccaagtt 2029578

Score = 1172 bits (591), Expect = 0.0
 Identities = 603/607 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 21753816 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 21753875

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 21753876 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
 21753935

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 1822

|||||
 Sbjct: 21753936 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 21753995

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 1882

|||||
 Sbjct: 21753996 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 21754055

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 21754056 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
21754115

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 21754116 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccactacaccg
21754175

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 21754176 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
21754235

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 21754236 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
21754295

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 21754296 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
21754355

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 21754356 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
21754415

Query: 2243 ataatat 2249

|||||
Sbjct: 21754416 ataatat 21754422

Score = 1025 bits (517), Expect = 0.0
Identities = 538/545 (98%)
Strand = Plus / Minus

Query: 1644 acgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctat
1703

|||||
Sbjct: 24369886 acgccttatcccactaggtggggcggtacatggatcaacttcgccataatggttctat
24369827

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
1763

|||||
Sbjct: 24369826 caagtactatacttctatccaaatcattaagttcgagatcctttttataacctctctta
24369767

Query: 1764 tagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctactc
1823

|||||
Sbjct: 24369766 tagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctactc
24369707

Query: 1824 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
1883

|||||
Sbjct: 24369706 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
24369647

Query: 1884 ccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttctaa
1943

|||||
Sbjct: 24369646 ccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttctaa
24369587

Query: 1944 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
2003

|||||
Sbjct: 24369586 ttttatcctgtcaagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
24369527

Query: 2004 ctttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggtc
2063

|||||
Sbjct: 24369526 ctttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggtc
24369467

Query: 2064 ttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataaca
2123

|||||
Sbjct: 24369466 ttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgtatcacataaca
24369407

Query: 2124 ccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccctt
2183

|||||

Sbjct: 24369406 cccccaatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccctt
24369347

Query: 2184 caatt 2188
|||||
Sbjct: 24369346 caatt 24369342

Score = 843 bits (425), Expect = 0.0
Identities = 455/465 (97%)
Strand = Plus / Plus

Query: 1993 cgctacacctactttattctcatgttggtccttgaccgccaacattctgttccgtacaa
2052
|||||
Sbjct: 34438944 cgctacacctactttattctcatgttggtccttgaccgccaacattctgttccgtacaa
34439003

Query: 2053 aatcgccggtccttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgc
2112
|||||
Sbjct: 34439004 aatcgtcggtccttaccgcagtcgaataaaaactttccctttaacttgatcggtacctttgc
34439063

Query: 2113 atcacataacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgatt
2172
|||||
Sbjct: 34439064 atcacataacacccctgatgcttttctccatttcatccatcctacttgaatgcgatgatt
34439123

Query: 2173 cacatccccttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgt
2232
|||||
Sbjct: 34439124 cacatccccttccatttcccatcatcctgtattacagaccaagatatttaaaccgtgt
34439183

Query: 2233 gacttgagggataaatatggtctcctattttcacctctgagttagaaaccctccttctttt
2292
|||||
Sbjct: 34439184 gacttgagggataaatatggtctcctattttcacctttgagttagaaaccctccttctttt
34439243

Query: 2293 gttgaacttacattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttc
2352
|||||
Sbjct: 34439244 gttgaacttacattccatatactccgatttgcttctgcttaggcggaagccatgtgtttc
34439303

Query: 2353 tagagctcgtctccaagttttcaacctctcattcaactcctccctcgactctccaaggag
 2412
 |||||
 Sbjct: 34439304 tagagctcgtctctaagttttcaacctctcattcaactcctccctcgactctccaaggag
 34439363

Query: 2413 gactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457
 |||||
 Sbjct: 34439364 gactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 34439408

Score = 732 bits (369), Expect = 0.0
 Identities = 384/389 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 34438556 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 34438615

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||
 Sbjct: 34438616 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
 34438675

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
 1822
 |||||
 Sbjct: 34438676 atagtctttttgggtcttctctgctcgaatagtttgtcttctctccatctgggtctact
 34438735

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctatatt
 1882
 |||||
 Sbjct: 34438736 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctatatt
 34438795

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942
 |||||
 Sbjct: 34438796 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctg
 34438855

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
Sbjct: 34438856 attttatcctgtcgcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
34438915

Query: 2003 actttattctcatgttggctcttgaccgc 2031
|||||
Sbjct: 34438916 actttattctcatgttggctcttgaccgc 34438944

Score = 728 bits (367), Expect = 0.0
Identities = 373/375 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 40112804 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
40112745

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762
|||||
Sbjct: 40112744 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataaacctctctt
40112685

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 40112684 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40112625

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctattt
1882
|||||
Sbjct: 40112624 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctattt
40112565

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 40112564 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
40112505

Query: 1943 attttatcctgtcgcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 40112504 attttatcctgtcgcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
40112445

Query: 2003 actttattctcatgt 2017
 |||||
Sbjct: 40112444 actttattctcatgt 40112430

Score = 428 bits (216), Expect = e-117
Identities = 240/248 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 883647 aacgccttatcccactaggtggggtcggccacatggatcaacttccgccataatgttcta
883588

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||
Sbjct: 883587 tcaagtaccatacttttatccaaatcattaagttcgagatccttcttgataacctctctt
883528

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
 |||||
Sbjct: 883527 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
883468

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
 || |||||
Sbjct: 883467 ctctcactacagagtctatcggtcttctctctacatgcccaaaccacctaagtctattt
883408

Query: 1883 tccaccat 1890
 |||||
Sbjct: 883407 tccaccat 883400

Score = 422 bits (213), Expect = e-115
Identities = 213/213 (100%)
Strand = Plus / Plus

Query: 2245 aatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacttaca
2304
 |||||

Sbjct: 21755547 aatatgggtctcctatattttcacctctgagttagaaaccctccttcttttgttgaacttaca
21755606

Query: 2305 ttccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtct
2364

|||||
Sbjct: 21755607 ttccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtct
21755666

Query: 2365 ccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatc
2424

|||||
Sbjct: 21755667 ccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatc
21755726

Query: 2425 tgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 21755727 tgcaaaaagcatgcatctcggcgctatctcttg 21755759

Score = 236 bits (119), Expect = 5e-59
Identities = 159/174 (91%), Gaps = 10/174 (5%)
Strand = Plus / Plus

Query: 1647 ccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatcaa
1706

||||| ||| ||||| |||||
Sbjct: 38134912 ccttattccattaggtgaagtcggctacatggatcaacttccgccataatgttctatcaa
38134971

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
1766

|||||
Sbjct: 38134972 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
38135031

Query: 1767 tctttttgggtcttctcctctgcctcgaattgtttgtcttctctccatctgggtcta 1820

||||| ||||| |||||
Sbjct: 38135032 tctt-----cctctgccttgaattgtttgtcttctctccatctgggtcta
38135075

Score = 228 bits (115), Expect = 1e-56
Identities = 121/123 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 39329405 aacgccttatcccattaggtggggctcgactacatggatcaacttccgccataatgttcta
39329346

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 39329345 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
39329286

Query: 1763 ata 1765
|||
Sbjct: 39329285 ata 39329283

Score = 212 bits (107), Expect = 8e-52
Identities = 107/107 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 16401391 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
16401332

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatccttttt 1749
|||||

Sbjct: 16401331 tcaagtaccataacttctatccaaaccattaatttcgagatccttttt 16401285

Score = 186 bits (94), Expect = 4e-44
Identities = 97/98 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 32743798 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
32743739

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgag 1740
|||||

Sbjct: 32743738 tcaagcaccataacttctatccaaaccattaatttcgag 32743701

[illegible]

Sbjct: 1668324 aattggttagagtgttatgctaataacatgaaagtcatagattcaattcatgcctgaagc
1668265

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttGaaaaaaaaattataaaaaaat 5352
 ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1668264 attaatTTTaaattagttcGTaaaacatatatttttGaaaaaaaaatt-taaaaaaat
1668210

Score = 169 bits (85), Expect = 1e-38
Identities = 202/237 (85%), Gaps = 3/237 (1%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattag
5175
 ||||| ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8138361 aaaaatcaattatcacaaaatttattatataaaatttacatatacattaaaaatacattat
8138302

Query: 5176 aaatTTTtagtgttatatTTTtagtgaaattaattattttataacataattgatgtattagtt
5235
 ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8138301 aaatTTTtagtgatatataatgaaattaattattttgataatataattgatccgttagct
8138242

Query: 5236 cagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295
 ||||| ||||| || || || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8138241 cagttgg-tagagca-tgtgctgataatgtgaaagtcacatgtttgatttctgcttggat
8138184

Query: 5296 cattaattTTTaaattaatttGTaaaatatatttttGaaaaaaaaattataaaaaaat 5352
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8138183 cattaattTTTaaattaattcataaattatatatttttGaaaaaaaaatt-taaaaaaat
8138128

Score = 169 bits (85), Expect = 1e-38
Identities = 103/109 (94%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
1257
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36280822 catacctttctcggccttttggctaagatcaaagtgtagtatctgttcttatccgtttaat
36280763

Query: 1258 atctgatatgtgggtcattggcccatgatattaaattttattttttga 1306
|||||
Sbjct: 36280762 atctgatatgtgggtcattgggtcacacgataataaattttattttttga 36280714

Score = 165 bits (83), Expect = 2e-37
Identities = 137/155 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 4709887 aaaattaattgttacaaaattttattatccaaatttacatgtacattaaatatacattaaa
4709828

Query: 5177 aatttttagtggttatatttagtgaaattaattttttataacataattgatgtattagttc
5236
|||||
Sbjct: 4709827 aattttattggttatatataatgacattaattttttataacataattgacctattaactt
4709768

Query: 5237 agttgggttagagcattatgttaataatgtgaaagt 5271
|||||
Sbjct: 4709767 agttgggttagagcgctcggttaataacgtgaaagt 4709733

Score = 165 bits (83), Expect = 2e-37
Identities = 188/223 (84%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaattttattatctaaatttgcacataaatatacattag
5175
|||||
Sbjct: 39877224 aaaaattaattatcacaaaattaattatgtaaattttatatgtgtattaaatatacataag
39877283

Query: 5176 aaatttttagtggttatatttagtgaaattaattttttataacataattgatgtattagtt
5235
|||||
Sbjct: 39877284 aaatatttagtggttatatacagcgacattaattttttataacataattgatctattagct
39877343

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295
|||

Sbjct: 39877344 taatttggttagaacggttgctgctaataatgtaaaaatcacaggtttgattcttgcttgtag
39877403

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaa 5338
|||||
Sbjct: 39877404 cattaatttttaaattaatttgtaaaatatatttttgaaaaaa 39877446

Score = 165 bits (83), Expect = 2e-37
Identities = 131/147 (89%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacatag
5175
|||||
Sbjct: 41061134 aaaaattaattggtcacaaaatttattatgtaaatttacatgtgtgttaaataatatattag
41061193

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
|||||
Sbjct: 41061194 aaatttttagtggttatatatagcgatatattaattattttataataataattgatctattagtt
41061253

Query: 5236 cagttgggttagagcattatgttaataa 5262
|||||
Sbjct: 41061254 cagtttaggttagagtattatgttaataa 41061280

Score = 161 bits (81), Expect = 3e-36
Identities = 138/157 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacatag
5176
|||||
Sbjct: 39219294 aaaattaattggtcacaaaatttattatgtaaatttccaagtgtattaaatacatag
39219353

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 39219354 aatttttagtggttatatatataatgatattaattattttataacataattgacctattagctt
39219413

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtca 5273

|||||
Sbjct: 39219414 agttggtagagcattgtgttaataacgcgaaagtca 39219450

Score = 161 bits (81), Expect = 3e-36
Identities = 102/109 (93%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
1257

|||||
Sbjct: 40623005 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
40623064

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaattttattttttga 1306

|||||
Sbjct: 40623065 atctgatatgtggaccatcggttcacacgatattaaattaattttttga 40623113

Score = 159 bits (80), Expect = 1e-35
Identities = 182/213 (85%), Gaps = 16/213 (7%)
Strand = Plus / Plus

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876

|||||
Sbjct: 5718662 aatatcatagctttgtttagaaaaaaaga--tttaatagttaatagctaaagaaa-ccaa
5718718

Query: 4877 aag---tttttcttttattt-----ttattttgttcctattcaattctaattttgt
4924

||| |||||
Sbjct: 5718719 aagtttttttttttttatttctattctctttattttcttcctattcaattctaattctgt
5718778

Query: 4925 catTTTTT-tcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttactt
4983

| | |||||
Sbjct: 5718779 cttcttttctcactttctctcatacttctctgtcttctcacatgcttcttcaatttattt
5718838

Query: 4984 gattattattttactttgatacattagccaata 5016

||||| ||| |||||
Sbjct: 5718839 gattattgtttcactttgacacattagccaata 5718871

```

Query: 5237      agttgggttagagcattatgttaataa 5262
               ||||| ||||| || ||| |||||
Sbjct: 1668795  agttgattagagtatcatgctaataa 1668820

```

Score = 155 bits (78), Expect = 2e-34
Identities = 124/138 (89%), Gaps = 1/138 (0%)
Strand = Plus / Plus

Query: 4762 tggttaatctttttattgataaccgtaa-taataattaataagtaataatTTTTTatcaata
4820
 |||||
Sbjct: 17415504 tggttaatctttttattggtaccgtaagtaacaattaatgagcaacaactcttcaccaata
17415563

Query: 4821 tcatagctttggttagaaaaaaagagatttaataattaatagctaaagaaatccaaaagt
4880
 |||||
Sbjct: 17415564 tcatagctttggttagaaaaaaagagatttaatagttaatagctaaagaaatccaaaagt
17415623

Query: 4881 ttttcttttatttttatt 4898
 ||||
Sbjct: 17415624 ttttattttattttctatt 17415641

Score = 155 bits (78), Expect = 2e-34
Identities = 128/142 (90%), Gaps = 2/142 (1%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataaccgtaa-taataattaataagtaataatTTTTTatc
4816
 |||||
Sbjct: 23055869 taactgttaatctttttattggtaccgtaagtaaaaattaatgagaaacaactctttacc
23055928

Query: 4817 aatatcatagctttggttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876
 |||||
Sbjct: 23055929 aatatcatagctttggttagaaaaaa-gaaatttaatagttaatagttaaagaaatccaa
23055987

Query: 4877 aagtttttcttttatttttatt 4898
 ||||
Sbjct: 23055988 aagtttttcttttattttctatt 23056009

Score = 153 bits (77), Expect = 6e-34
Identities = 134/153 (87%)

Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

 ||||| ||| ||||| ||||| ||||| ||| | ||||| |||||
Sbjct: 35697946 aaaattaatcggtataaaaatttattatgtaaatttatatgagtattaaatatacattaga
35698005

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 35698006 aattttaatggttatatatagtgatattaattattttataacataattgacatattagttc
35698065

Query: 5237 agttggtagagcattatgttaataatgtgaaa 5269

 ||||| ||||| ||| || ||||| |||||
Sbjct: 35698066 agttggtagaacgtcatattaataatgagaaa 35698098

Score = 145 bits (73), Expect = 1e-31
Identities = 166/197 (84%)
Strand = Plus / Minus

Query: 5137 ttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggttatatttag
5196

 ||||| ||||| ||| || ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 40082072 ttattatgtaaatttatatgtgcattaaatatattagaaatttttagttttatatataa
40082013

Query: 5197 tgaaattaattattttataacataattgatgtattagttcagttggtagagcattatgt
5256

 | | ||||| ||||| ||||| ||||| ||||| || ||||| ||||| ||
Sbjct: 40082012 taacattaattattttagaacataattgacctattagtttagctggttaagagcatcattc
40081953

Query: 5257 taataatgtgaaagtcaaaagttcaattcttacttggtacattaattttaaattaatttg
5316

 ||||| | ||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40081952 taataacgcgaaagtcacaagtttaatttctaaatggattattaattttaaattaatttg
40081893

Query: 5317 taaaatatatttttgaa 5333

 ||||| ||||| |||||
Sbjct: 40081892 taaaacatatttttgaa 40081876

Score = 139 bits (70), Expect = 9e-30
 Identities = 187/226 (82%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 7806771 aaaattaattggttacaaaatttattatttaaatttacatgcgcattaaatatacattaga
 7806830

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||||| | |||| | || | |||| |||||||||||| ||||| | ||||||||
 Sbjct: 7806831 aattttaattatgtataacaacattatttattttataatataaattgttcattagttc
 7806890

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggtac
 5296
 |||| | |||| | || | |||| | |||||| | |||| |||| |||| ||||
 Sbjct: 7806891 agttaattagagtggtacactaataacttaaaagtcacatattcaagtcttgcttgaac
 7806950

Query: 5297 attaatTTTTaaattaatttGTaaaatatatttttgaaaaaaaaaatt 5342
 |||||||||||||||||||| | | |||||| ||||| ||||
 Sbjct: 7806951 attaatTTTTaaattaatttGtcacaaatatTTTTaaaaaaataatt 7806996

Score = 137 bits (69), Expect = 4e-29
 Identities = 117/133 (87%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 32076465 aaaattaattgtcacaaaatttattatctaaatttgcacataaatatacattaa
 32076406

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||||||||| | | | | |||||||||||||||| ||||| | ||| ||
 Sbjct: 32076405 aattttagtggttacatcgcgcacattaattattttataatataattgacctattgactc
 32076346

Query: 5237 agttggttagagc 5249
 ||||||||||||
 Sbjct: 32076345 agttggttagagc 32076333

Score = 135 bits (68), Expect = 1e-28
Identities = 151/178 (84%), Gaps = 3/178 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| ||||||||||| |||||| | || | |||||||||||
Sbjct: 35414947 aaaattaattgtcacaaaatttattatttaaatttacatgtacattaaatatacattaga
35414888

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 || ||||||||||| || | | |||| ||||||||||| || |||| |
Sbjct: 35414887 aagcttagtggttatatataataatattattttattttataacataattgggtctattaactt
35414828

Query: 5237 agttggtagagcattatgt---taataatgtgaaagtcaaaagttcaattcttactt
5291
 ||||||||| | | |||| |||||| | ||||||| |||||||
Sbjct: 35414827 agttggtaggacgtaatgtcaataataatctgaaagtataagttcaattcttactt
35414770

Score = 133 bits (67), Expect = 6e-28
Identities = 67/67 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||||||
Sbjct: 8046380 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
8046439

Query: 1703 tcaagta 1709
 |||||||
Sbjct: 8046440 tcaagta 8046446

Score = 131 bits (66), Expect = 2e-27
Identities = 66/66 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||||||

Sbjct: 8832935 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
8832994

Query: 1703 tcaagt 1708
|||||
Sbjct: 8832995 tcaagt 8833000

Score = 129 bits (65), Expect = 9e-27
Identities = 78/81 (96%), Gaps = 1/81 (1%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
1705
|||||
Sbjct: 37863642 gccttatcccactaggtgga-tcggctacatggatcaacttccgccataatgttctatca
37863584

Query: 1706 agtaccatacttctatccaaa 1726
|||||
Sbjct: 37863583 agtaccatacttctattcaaa 37863563

Score = 127 bits (64), Expect = 3e-26
Identities = 115/132 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 31387979 aaaattaattgtcacaaaatttattatgtaaatttacatgcgtattaaatatacattaaa
31388038

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|| |||||
Sbjct: 31388039 aaatttagtggttatatataaagacattagttattttataacataattgggtctattagttt
31388098

Query: 5237 agttgggtagag 5248
| |||||
Sbjct: 31388099 aattgggtagag 31388110

Score = 125 bits (63), Expect = 1e-25

Identities = 66/67 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatggttcta
1702
|||||
Sbjct: 376416 aacgccttatcccactaggtgggggtcgactacatggatcaacttccgccataatggttcta
376357

Query: 1703 tcaagta 1709
|||||
Sbjct: 376356 tcaagta 376350

Score = 125 bits (63), Expect = 1e-25
Identities = 114/131 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 3162515 aaaattaattgtctcaaaaatttattatgtaaatttataatgtacattaaatatacgttaaa
3162574

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 3162575 aatttttagtggttatataacacacattaattattttataacataattgacctattaactc
3162634

Query: 5237 agttgggttaga 5247
|||||
Sbjct: 3162635 agttgggttaga 3162645

Score = 125 bits (63), Expect = 1e-25
Identities = 165/199 (82%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattag
5175
|||||
Sbjct: 35089712 aaaaattaattatcaccaaatttattatgtaaattgtacatttgcattaaatatacatttg
35089653

Query: 5182 tagtggttatatttagtgaaattaattattttataacataaattgatgtattagttcagttg
5241
|||

Sbjct: 37685743 taatgttatatataacgacattaattatTTTTataatatatttgatttattaactcagttg
37685802

Query: 5242 gttaga 5247
|||||
Sbjct: 37685803 gttaga 37685808

Score = 123 bits (62), Expect = 5e-25
Identities = 125/146 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 40082316 aaaattaattgtcataaaaatttattatgtaaatttacatgtgcattaaatatacattaga
40082375

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
5236
|||||
Sbjct: 40082376 aatttttaattgttatatataatgacattaattattgtataatataattgaattattaactc
40082435

Query: 5237 agttggtagagcattatgttaataa 5262
|||||
Sbjct: 40082436 agttgcttaaagtattatattaataa 40082461

Score = 119 bits (60), Expect = 9e-24
Identities = 69/72 (95%)
Strand = Plus / Minus

Query: 1909 tactccaaccctctctctaataagcttcgTTTctaattttatcctgtcgagtcttaccaca
1968
|||||
Sbjct: 883399 tactcaaactctctctctaataagcttcgTTTctaattttatcctttcgagtcttaccaca
883340

Query: 1969 catccaccgcaa 1980
|||||
Sbjct: 883339 catccaccgcaa 883328

Score = 119 bits (60), Expect = 9e-24

Score = 117 bits (59), Expect = 3e-23
Identities = 113/131 (86%)
Strand = Plus / Minus

```
Query: 5117      aaaattaattgttacaaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176            |||
Sbjct: 27966048 aaaattaattgtcataaaaattttattatttaaatttacatgcgcattaaatatacattaga
27966107
```

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236

|||||
Sbjct: 27966108 aatttttagtggttatgtataacaatattatttatttttataacgtaattgggttcattagctc
27966167

Query: 5237 agttgggttaga 5247

|||||
Sbjct: 27966168 agttgggttaga 27966178

Score = 113 bits (57), Expect = 5e-22
Identities = 111/129 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 21680680 aaaattaattgtcacaaaatttattattttaaatttacatgcgtattaaatatatattaaa
21680621

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236

|| |||| | ||||| ||| || |||||
Sbjct: 21680620 aaatttaattattatatatagcgacattaattatttttataacataattgacttattaaatc
21680561

Query: 5237 agttgggtta 5245

|||||
Sbjct: 21680560 agttgggtta 21680552

Score = 113 bits (57), Expect = 5e-22
Identities = 96/109 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 28182671 aaaattaattgtcacaaaatttattattttaaatttacatgcacattaaatatatttga
28182730

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattga 5225

|||||
Sbjct: 28182731 aatttttagtggttatgtataacaacattatttactttataacataattga 28182779

Score = 111 bits (56), Expect = 2e-21
 Identities = 95/108 (87%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 31387956 aaaattaattgtcacaaaatttattatataaaattacattgtgcattaaatatacattcta
 31387897

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224
 |||||
 Sbjct: 31387896 aatttttagtggttatataacaacattaattattttataacataattg 31387849

Score = 109 bits (55), Expect = 8e-21
 Identities = 106/123 (86%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattag
 5175
 |||||
 Sbjct: 39236240 aaaaattaattatcataaaatttattatataaaattacattgtattaaatatacattag
 39236181

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataaattgatgtattagtt
 5235
 |||||
 Sbjct: 39236180 aaatttttagtattatataacacacattaattattttataacataaattgatttattagtt
 39236121

Query: 5236 cag 5238
 |||
 Sbjct: 39236120 cag 39236118

Score = 107 bits (54), Expect = 3e-20
 Identities = 269/339 (79%), Gaps = 5/339 (1%)
 Strand = Plus / Minus

Query: 6825 gcttcattgcacaatttcccaagtaatcatttgcattgttatagatacttttcagcgta
 6884
 |||||

Sbjct: 10117320 atgagaacaaggcatgtgcaacttctagaatttgccacagagtcacaccacttttcatct
10117261

[illegible]

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTTatc
 4816

|||||
 Sbjct: 3086603 taactgttaatcctttttattggtaccgtaagtaacaattaatgagcaacaactcttcacc
 3086544

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaa
 4876

|||
 Sbjct: 3086543 aatgtcataactttgttta-aaaaaaagagatttaatagttaatagctaaagaaacccta
 3086485

Query: 4877 aagtttttcttttatttt 4894

||
 Sbjct: 3086484 aaacttttattttatttt 3086467

Score = 99.6 bits (50), Expect = 8e-18
 Identities = 80/90 (88%)
 Strand = Plus / Plus

Query: 5132 aaaattttattatctaaatttgcacataaataacattagaaatttttagtggtata
 5191

||||
 Sbjct: 27397756 aaaaattattatttaaatttacatgcacattaaataacattagaaatttttagtggtata
 27397815

Query: 5192 ttttagtgaaattaattattttataacataa 5221

|
 Sbjct: 27397816 tataacaacattattttattttataacataa 27397845

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 78/88 (88%)
 Strand = Plus / Minus

Query: 6580 aaaatattttaatttgaataataacaacaaaaattttaaaatacaacaatatggcataa
 6639

|||||
 Sbjct: 4197983 aaaatattttaatttgaagtaatacaataaaaattttaaaatacaacaatatgatatac
 4197924

Query: 6640 aattaatgttggtggcctgagcctacac 6667

|
 Sbjct: 4197923 atttaatgttgctcggttgagcctacac 4197896

```
Query: 5162      taaatatacattagaaatTTTtagtgTTtatatttagtgaaattaattatTTTataacataa
5221            |||
Sbjct: 33809592 taaatataccttaaaaaatTTTtagtgTTtatatatagtgatattaattatTTTataacataa
33809533
```

Score = 91.7 bits (46), Expect = 2e-15
Identities = 117/138 (84%), Gaps = 2/138 (1%)
Strand = Plus / Plus

Query: 5124 attggtacaaaatttattatctaaatttgcacatgacataaatatacattagaaatttta
5183

|||| ||||||||| |||||| |||| | | ||| ||||||||| |||||||||
Sbjct: 4015972 attggtacaaaatttattatgtaaatttacatgtatattaa-tatacattaaaaatttta
4016030

Query: 5184 gtgttatatttagtgaaattaattattttataacataattgatgtattagttcagttggt
5243

|| |||||| || || ||||||||| ||||||||| || ||||| |||||||||
Sbjct: 4016031 gtattatatataacgacattaattattctataacataattg-tttattaactcagttggt
4016089

Query: 5244 tagagcattatgttaata 5261
|||| ||| |||||||
Sbjct: 4016090 tagaacatcgtgttaata 4016107

Score = 91.7 bits (46), Expect = 2e-15
Identities = 121/146 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgacataaatatacattaga
5176

||||||| ||| ||||||||| |||||| ||| | || ||||||||| |||||||||
Sbjct: 7726135 aaaattaattattataaaaatttattatttaaatttacatacgcatataacattaga
7726194

Query: 5177 aatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||| | ||||| || | |||| |||||||| |||||||| | ||||| ||
Sbjct: 7726195 aattttaattattatatataacaattattattttttacaacataattaaactattaattt
7726254

Query: 5237 agttggtagagcattatgttaataa 5262

| |||||||| ||| ||| |||||
Sbjct: 7726255 aattggtagaacatcatgctaataa 7726280

Score = 89.7 bits (45), Expect = 8e-15
Identities = 93/109 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgacataaatatacattaga
5176

||||||| ||||| |||||| |||||| ||||| || ||||||||| ||||| |

[illegible]

Sbjct: 37632356 aaaatttattgtcacaaaatttatttagttaaatatttatgtccattaaatatacattaga
37632415

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
||||||| | ||||| | | | |||| | ||||| ||||| ||||| |||||
Sbjct: 37632416 aattttaattattatatataataacattatttattttataatataattgatctatta
37632471

Score = 87.7 bits (44), Expect = 3e-14
Identities = 68/76 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||||| ||||| ||||| ||||| ||||| | ||||| ||||| |||||
Sbjct: 41061112 aaaattaattgtcacaaaatttattatgaaaattacattgctgcgttaaatacattaga
41061053

Query: 5177 aatttttagtggttatat 5192
||||||| |||||
Sbjct: 41061052 aatttttagtggttatat 41061037

Score = 85.7 bits (43), Expect = 1e-13
Identities = 92/107 (85%), Gaps = 1/107 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39847611 aaaattaattgtcacaaaatttattatttaaatttatatgtacattaaatacattaga
39847552

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
|| |||| | ||||| || | |||| | ||||| ||||| |||||
Sbjct: 39847551 aa-tttaattgttatataacaataattatttattttacaacataatt 39847506

Score = 85.7 bits (43), Expect = 1e-13
Identities = 97/115 (84%)
Strand = Plus / Minus

Query: 5118 aaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattagaa
5177


```

||||||| | ||||||||||||| ||||||| ||| || ||||| ||||||| ||
Sbjct: 41106560 aaattaattatcacaaaatttattatgttaaatttatatgtgcattaaatttacattaaaa
41106501
```

```

Query: 5178      attttagtggttatattttagtgaaattaattattttataacataattgatgtatta 5232
||||||| ||||| || | ||||||||||||||||||||||| || |||||
Sbjct: 41106500 attttagtattatatataagaatattaattattttataacataattaatctatta
41106446
```

Score = 83.8 bits (42), Expect = 5e-13
Identities = 51/54 (94%)
Strand = Plus / Plus

```

Query: 5287      tacttggatcattaattttaaatatttgtaaaatatatttttgaaaaaaaaa 5340
||||||| ||||||||||||||||||| ||||| |||||||||||||||||
Sbjct: 21681004 tacttggaccattaattttaaatatttcgtaaaacatatattttgaaaaaaaaa
21681057
```

Score = 83.8 bits (42), Expect = 5e-13
Identities = 93/108 (86%), Gaps = 4/108 (3%)
Strand = Plus / Plus

```

Query: 7433      acaacaatgaacaacacacat--gacaactacaaatcattaaataatacaattacaatca
7490
||||||| ||||||| || | ||||||||||| ||||| ||| | |||||
Sbjct: 41385022 acaacaatgaaaaacacacatatgagtcctacaaatcatttaataataaaaataaatca
41385081
```

```

Query: 7491      aataatttggggaggggg--tcttcaaaacttgattcaagggttcattg 7536
||||| ||||| ||||| ||||||||||| |||||||||||||
Sbjct: 41385082 aataaattgggggggggattcttcaaaactcgattcaagggttcattg 41385129
```

Score = 81.8 bits (41), Expect = 2e-12
Identities = 92/109 (84%)
Strand = Plus / Minus

```

Query: 5117      aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||||| | ||||||| ||||| ||||||| ||||| || |||||||||||||
Sbjct: 3006348 aaaattaattatcacaaaattaattatttaaatttacatgcgcattaaatatacattaga
3006289
```


Score = 77.8 bits (39), Expect = 3e-11
Identities = 66/75 (88%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttatgaataaataaaaagggttttattcttaaatttgcttgag
5073
 |||||||||||||| |||||||||| |||||||||| | | |||||||||||||| ||
Sbjct: 5724575 ataattttaataaactatatttatgagtaaataaaaatgcctcattcttaaatttgctttag
5724634

Query: 5074 ccctctcaagtcctt 5088
 ||||| |||||||
Sbjct: 5724635 gcctcttaagtcctt 5724649

Score = 75.8 bits (38), Expect = 1e-10
Identities = 44/46 (95%)
Strand = Plus / Minus

Query: 6431 tcctttgtatattttatattttgattattataataacataattaaa 6476
 |||||||||||||||||||||||||| ||||||| |||||
Sbjct: 28692807 tcctttgtatattttatattttgattattaaaatacatattttaa 28692762

Score = 75.8 bits (38), Expect = 1e-10
Identities = 50/54 (92%)
Strand = Plus / Plus

Query: 5013 aataattttaataaattatatttatgaataaataaaaagggttttattcttaaattt 5066
 |||||||||||||||||||||||||| ||||||| ||||| |||||||
Sbjct: 28952935 aataattttaataaattatatttatgagtaaataaaaagactttatttttaaattt
28952988

Score = 75.8 bits (38), Expect = 1e-10
Identities = 50/54 (92%)
Strand = Plus / Minus

Query: 5286 ttacttggatcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5339
 ||||||| |||||||||||||| || | ||||| |||||||||||||| ||
Sbjct: 29991386 ttacttggaccattaatttttaaattaatcgtaaattatatatttttgaaaaaaaaa
29991333

Query: 7213 attacacct 7221
 |||||
Sbjct: 4197327 attacacct 4197319

Score = 73.8 bits (37), Expect = 5e-10
Identities = 49/53 (92%)
Strand = Plus / Plus

Query: 5289 cttggatcattaatTTTaaattaatttgtaaaatatatTTTTgaaaaaaaaaat 5341
 |||||
Sbjct: 39698939 cttggatcattaatTTTaaattaatcataaattatatTTTTgaaaaaaaaaat
39698991

Score = 73.8 bits (37), Expect = 5e-10
Identities = 86/101 (85%), Gaps = 1/101 (0%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTTtagtgTTatatTTTtagtgaaattaattTTTTataacataa
5221
 |||||
Sbjct: 39848345 taaatatacattaaaaattt-agtgttatataataacattatttTTTTataacataa
39848403

Query: 5222 ttgatgtattagttcagttggttagagcattatgttaataa 5262
 ||| | || | || | |||||
Sbjct: 39848404 ttggtttactaactcatttggttagagtgttatgttaataa 39848444

Score = 71.9 bits (36), Expect = 2e-09
Identities = 99/119 (83%), Gaps = 2/119 (1%)
Strand = Plus / Plus

Query: 5129 tacaaaatttattatctaaatttgcattgcacaataaatatacattagaaatTTTtagtgTT
5188
 |||||
Sbjct: 1279442 tacaaaatttattatttaaatttacatgcacattaaatat--attagaaagtttagtatt
1279499

Query: 5189 atatttagtgaaattaattTTTTataacataattgatgtattagttcagttggttaga
5247
 || | || | || | |||||
Sbjct: 1279500 atgtataataacattctttattttataatataattggtctattaatttagttgattaga
1279558

Score = 71.9 bits (36), Expect = 2e-09
Identities = 81/96 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||||||| ||||||||||||||||| ||||| || || | | ||||||||||||||| |
Sbjct: 3066324 aaaattaattattacaaaatttattatgtaaacttatatacgtattaaatatacattaaa
3066265

Query: 5177 aatttttagtggttatatttagtgaaattaattatttt 5212
 ||||||||||||||||| || | | |||||||||||||
Sbjct: 3066264 aatttttagtggttatatataataatgttaattatttt 3066229

Score = 71.9 bits (36), Expect = 2e-09
Identities = 91/108 (84%), Gaps = 1/108 (0%)
Strand = Plus / Minus

Query: 6679 tgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgta
6738
 ||||||| ||||||||||| ||||||| | || ||||| ||||||||||| |||||||
Sbjct: 28133886 tgcgacaaatggaacatctttttgggtcactcaattctctcatatccattt-ggtgtgtg
28133828

Query: 6739 tacgagaggagacatgacaacctttagaatttcttttcatttttgggt 6786
 ||||||||||| || ||||||||||||||||||||| |||||||||||
Sbjct: 28133827 tacgagaggatactggacaacctttagaatttcttaacatttttgggt 28133780

Score = 71.9 bits (36), Expect = 2e-09
Identities = 79/92 (85%), Gaps = 1/92 (1%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataaatatacattagaaatttttagtggtta
5189
 ||||||||||||||| ||||||| ||||| | | ||||||||| ||||||||||||||||| |||
Sbjct: 29991534 acaaaatttattatgtaaatttacatgtatattaaatataaaattagaaatttttagtatta
29991475

Query: 5190 tatttagtgaaattaattattttataacataa 5221
 ||| || ||| | || ||| |||||||||||||
Sbjct: 29991474 tatataatgacactattta-tttataacataa 29991444

Score = 71.9 bits (36), Expect = 2e-09
Identities = 39/40 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatca 1682
 |||||
Sbjct: 31695433 aacgccttatcccactaggtggggctcggctacatggatca 31695394

Score = 71.9 bits (36), Expect = 2e-09
Identities = 48/52 (92%)
Strand = Plus / Minus

Query: 5297 attaattttaaattaatttgtaaaatatattttgaaaaaaaaattataaaa 5348
 |||||
Sbjct: 32076324 attaattttaaattaatttcctaaaacatatattttgaaaaaaaaattataaaa 32076273

Score = 71.9 bits (36), Expect = 2e-09
Identities = 51/56 (91%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagt 5185
 |||||
Sbjct: 39745869 acaaaaatttattatgtaaatttacatgtacattaaatataaattagaaatttttagt
39745924

Score = 69.9 bits (35), Expect = 7e-09
Identities = 50/55 (90%)
Strand = Plus / Plus

Query: 5170 cattagaaatttttagtgttatatatttagtgaaattaattattttataacataattg 5224
 |||||
Sbjct: 1112995 cattagaaatttttagtgttatatatagcgacattaattattttgtaacgtaattg
1113049

Score = 69.9 bits (35), Expect = 7e-09
Identities = 38/39 (97%)
Strand = Plus / Minus

Query: 5299 taatttttaaattaatttgtaaaatatatttttgaaaaaa 5337
 |||||||||||||||||||| | ||||||||||||||||
Sbjct: 8396925 taatttttaaattaatttgtaaaacatatatttttgaaaaaa 8396887

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Plus

Query: 5130 acaaaaatttattatctaaatttgcatgcacaataaatatacattagaaattttagtggtta
5189
 |||||||||||||||| | ||||| ||| ||| ||||||||| |||||||||||||||||
Sbjct: 10140296 acaaaaatttattatgttaatttacatatacattaaatataaattagaaattttagtggtta
10140355

Query: 5190 tat 5192
 |||
Sbjct: 10140356 tat 10140358

Score = 69.9 bits (35), Expect = 7e-09
Identities = 59/67 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattgtttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| | |||| | ||||||||| ||||||| | |||||| | ||||||||||||| |
Sbjct: 21680881 aaaattaattctcacagatttattatttaaatttacttgcacattaaatatacattaaa
21680940

Query: 5177 aatttta 5183
 |||||||
Sbjct: 21680941 aatttta 21680947

Score = 69.9 bits (35), Expect = 7e-09
Identities = 41/43 (95%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaa 5337
 |||||||||||||||||||| | ||||| |||||||||||||||||
Sbjct: 31279031 tcattaatttttaaattaatttcgtaaaacatatatttttgaaaaaa 31278989


```
Query: 5117      aaaattaattgttacaaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176           |||
Sbjct: 26417617 aaaattaattgttacaaaaattttattatttaaatttaca-gcgtattaaacatatatcaa
26417675
```

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236

Sbjct: 26417676 aattttaatggttatgtataacaacattattttattttacaacgtaattgactcattagctc
26417735

Query: 5237 agttggtttagagc 5249

Sbjct: 26417736 | | | | | | | | | | agttggtagagc 26417748

Score = 63.9 bits (32), Expect = 4e-07
Identities = 56/64 (87%)
Strand = Plus / Minus

Query: 5120 attaattgttacaaaattttattatctaaatttgcattgcacaataaatatacattagaaat
5179

Sbjct: 1029843 attaatgttacaaaatttattatataaaatttatatatgtattaaatatacattagaaat
1029784

Query: 5180 ttta 5183

Sbjct: 1029783 |||| ttta 1029780

Score = 62.0 bits (31), Expect = 2e-06
Identities = 31/31 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggcta 1673

Sbjct: 4682295 aacgccttatccactaggtggggtcggcta 4682265

Score = 62.0 bits (31), Expect = 2e-06
Identities = 34/35 (97%)
Strand = Plus / Plus

Query: 5199 aaattaattatTTTtataacataattgatgtattag 5233

|||||
Sbjct: 7623132 aaattaattatttataacataattgatttattag 7623166

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcatgcacaataaatatacattagaaatTTtagtgTTa
5189
 ||||| ||| ||||| ||| ||| ||||| ||||| ||||| |||
Sbjct: 32037921 acaaaatttactatgttaaatttacatatacattaaatataaaattagaaatTTtagtatta
32037862

Query: 5190 tat 5192
 |||
Sbjct: 32037861 tat 32037859

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcatgcacaataaatatacattagaaatTTtagtgTTa
5189
 ||||| ||||| ||| ||| ||||| ||||| ||||| |||
Sbjct: 35839101 acaaaatttattatgttaaatttacatatacattaaatataaaattaaaaatTTtagtatta
35839042

Query: 5190 tat 5192
 |||
Sbjct: 35839041 tat 35839039

Score = 62.0 bits (31), Expect = 2e-06
Identities = 71/84 (84%), Gaps = 4/84 (4%)
Strand = Plus / Plus

Query: 5165 atatacattagaaatTTtagtgTTatatttagtgaaattaattatTTtataacataattg
5224
 ||||| ||||| ||||| ||| ||| ||| ||||| |||||
Sbjct: 36598793 atatacattagaaatatttagtgTTatatataataacattattta----ataacataattg
36598848

Query: 5225 atgtattagttcagttggTTtagag 5248
 ||||| | ||||| |||||
Sbjct: 36598849 gtgtattagcttagttggTTtagag 36598872

Score = 58.0 bits (29), Expect = 3e-05
Identities = 65/77 (84%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
 ||||| ||||| || |||||||||||||| ||||||| |||| | | ||||||||| |||||
Sbjct: 3825570 aaaaaataattattgcaaaatttattatgttaaatttacatgtatatataaatataaattaa
3825511

Query: 5176 aaatdddtagtggtatat 5192
 ||||||| | |||||
Sbjct: 3825510 aaatdddtaatdddatat 3825494

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682
 ||||||||||||||||| | |||||||||||||||||
Sbjct: 8823222 gccttatcccactaggtgagatcggctacatggatca 8823258

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682
 ||||||||| ||||||||| |||||||||||||||||
Sbjct: 14533038 gccttatcctactaggtgaggtcggctacatggatca 14533002

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682
 ||||||||||||||||| ||| |||||||||||||||||
Sbjct: 32507655 gccttatcccactaggtgaggttggtacatggatca 32507619

```
Query: 5747      atcaaatTTgctaaaagatccttaaactTTtaattgaaaaa 5786
                |||
Sbjct: 37558163 atcaaatTTgcaaaaagatccttagactTTtaattgcaaaa 37558124
```

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggctcggctacatggatca 1682
|||||
Sbjct: 38816277 ccttatcccactaggtgaggtcagctacatggatca 38816242

Score = 56.0 bits (28), Expect = 1e-04
Identities = 50/56 (89%), Gaps = 1/56 (1%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaat 5352
|||||
Sbjct: 39848451 attaatttttaaattaattcataaaacatatattttt-aagaaaaaattaaaaaaat
39848505

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatatttaaatt 6546
|||||
Sbjct: 4198000 acaagttgaattgaactaaaatatatttaaatt 4197970

Score = 54.0 bits (27), Expect = 4e-04
Identities = 42/47 (89%)
Strand = Plus / Plus

Query: 5123 aattgttacaaaatttattatctaaatttgcacacataaatata 5169
|||||
Sbjct: 4874098 aattgtcacaaaatttattattcaaatttacatgcacattaaatata 4874144

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttatgaataaataaaa 5048
 ||||| ||||| |||||
Sbjct: 23056025 ataattttaataaactatatttatgagtaaataaaa 23056059

Score = 54.0 bits (27), Expect = 4e-04
Identities = 27/27 (100%)
Strand = Plus / Minus

Query: 7312 ccatcccatgcgagagtccacttttct 7338
 ||||| ||||| ||||| |||||
Sbjct: 28108606 ccatcccatgcgagagtccacttttct 28108580

Score = 54.0 bits (27), Expect = 4e-04
Identities = 54/63 (85%)
Strand = Plus / Plus

Query: 6935 aacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttc
6994
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41381553 aacaacatgagaacaaggcatgtccaactttttgaaatttgtcataatcacaccacttttc
41381612

Query: 6995 atc 6997
 |||
Sbjct: 41381613 atc 41381615

Score = 54.0 bits (27), Expect = 4e-04
Identities = 39/43 (90%)
Strand = Plus / Plus

Query: 7179 ttgcgacttctctccccctttggttgaacaatgcattacacct 7221
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41381793 ttgcggttctctccctcttttgttgaacaatgcattgcacct 41381835

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| |||||

Sbjct: 1112954 aaattaattgtcacaaaatttattatataaattt 1112987

Score = 52.0 bits (26), Expect = 0.002
Identities = 51/58 (87%), Gaps = 1/58 (1%)
Strand = Plus / Minus

Query: 5257 taataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaattaatt
5314

||||||| ||||||||||||||||| || | | |||||||||||||||||||||
Sbjct: 33809500 taataatgcaaaagtcaaaagttcaatcctttat-gaatcattaatttttaaattaatt
33809444

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaacaag 5572
|||||||||||||||||||
Sbjct: 305382 tttttttttaaaaaaaaaaaaaacaag 305358

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 5294 atcattaatttttaaattaatttgtaaaatatattttt 5330
||||||||||||||||||| ||| ||||| |||||||||
Sbjct: 486335 atcattaatttttaaattatttttttaaacatatattttt 486371

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 5120 attaattggttacaaaatttattatctaaa 5148
||||||||||| |||||||||||||||||
Sbjct: 9087759 attaattggttataaaaatttattatctaaa 9087731

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)

Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaaaca 5571
|||||||
Sbjct: 26369423 cttttttttaaaaaaaaaaaaaaaca 26369399

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattga 5225
|||||||
Sbjct: 35920345 attaattatTTTtataacataattga 35920321

Score = 50.1 bits (25), Expect = 0.007
Identities = 70/85 (82%)
Strand = Plus / Plus

Query: 6580 aaaatattttaattttgaaataatacaacaaaaatttttaaatacaaaacaatatggcataa
6639
||||||| ||| || ||||| ||||| ||| ||||| || ||| |||||
Sbjct: 41381173 aaaatattttaattttcaattaatacaacaaaaattttacaaatacaaaataacatgacatac
41381232

Query: 6640 aattaatgTtTgtTggcctgagccta 6664
| | | ||||| || |||||
Sbjct: 41381233 attcaacgTtTgttagcTtgagccta 41381257

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
|||||||
Sbjct: 305367 tttttttttaaaaaaaaaaaaaaaca 305390

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtggggctcggctacatgga 1679
 ||||| ||||||||||||||| ||||| | |||||||||||
Sbjct: 3052484 acaaatgccttatcccactaagtgggattggctacatgga 3052445

Score = 48.1 bits (24), Expect = 0.026
Identities = 54/64 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176
 ||||||||| | ||||||||||||||| ||||||| || || ||||||||| ||||| |
Sbjct: 3162443 aaaattaattatcacaaaatttattatgtaaatttacatatgcattaaatatatattaaa
3162502

Query: 5177 aatt 5180
 |||||
Sbjct: 3162503 aatt 3162506

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaa 5148
 ||||||||||||||||||| ||||| |||||
Sbjct: 4490254 aaaattaattggttacaaaatttcttatataaa 4490285

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacatg 1677
 ||||||||| ||||||||| |||||||||||||
Sbjct: 14085241 gccttatcacactaggtgaggtcggctacatg 14085272

Score = 48.1 bits (24), Expect = 0.026
Identities = 39/44 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataa 5160

||||| | | | ||||| ||||| |||||
Sbjct: 32076665 aaaattaattatcatataatttattatctaaatttacatgcaca 32076708

Score = 48.1 bits (24), Expect = 0.026
Identities = 60/72 (83%)
Strand = Plus / Plus

Query: 5145 taaatttgcatgcacaataaataacattagaaattttagtggttatatttagtgaaatta
5204

||||| |||| | | ||||| ||| ||||| ||||| ||||| || | | |||||
Sbjct: 36047089 taaatttacatgaatattaaatatattggaaattttagtattatatataactaatatta
36047148

Query: 5205 attattttataa 5216
||||| |||||
Sbjct: 36047149 gttattttataa 36047160

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 1647 ccttatccactaggtggggctcggtacatggatca 1682
||||| ||||| ||| ||||| ||||| |||||
Sbjct: 36881613 ccttatctcactaggtgaggttggtacatggatca 36881578

Score = 46.1 bits (23), Expect = 0.10
Identities = 56/67 (83%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737

|||| |||| |||| ||| ||||| || | | ||||| ||||| |||||
Sbjct: 10117586 atgccacacacggaatatcgctttggttgacttggttctcgatatccatttcggtgtgg
10117527

Query: 6738 atacgag 6744
|||||
Sbjct: 10117526 atacgag 10117520

Score = 46.1 bits (23), Expect = 0.10

Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaattt 5151
 ||||||| | ||||||| |||||||
Sbjct: 35920407 aaaattaattatcacaaaatttattatgtaaattt 35920373

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaattt 5151
 ||||||| | ||||||| |||||||
Sbjct: 36598756 aaaattaattgtcataaaaatttattatttaaattt 36598790

Score = 46.1 bits (23), Expect = 0.10
Identities = 38/43 (88%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaaattataaaaaa 5350
 ||||| ||| ||||||| ||||||| || |||||
Sbjct: 37288297 attaattcataaattatatattttgaaaaaaaaataaaaaaa 37288339

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattat 5143
 ||||||| |||||||
Sbjct: 40267089 aaaattaattgtataaaaatttattat 40267115

Score = 46.1 bits (23), Expect = 0.10
Identities = 44/51 (86%)
Strand = Plus / Minus

Query: 5165 atatacattagaaattttagtggttatattagtgaaattaattatttata 5215
 ||||| ||| ||||||| ||||| || || ||||||| |||||||
Sbjct: 41534420 atatatattaaaaattttagcattatatataatgacattaattatttata 41534370

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 1649 ttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||||| ||| |||||
Sbjct: 779667 ttatcccattaggtgaggtcagctacatggatca 779700

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatatatttt 5330
 ||||| ||||| || |||||
Sbjct: 1030099 attaatttttaaattatttcataaaatatatatttt 1030132

Score = 44.1 bits (22), Expect = 0.41
Identities = 91/114 (79%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattagttcagttgggttagagcattatgttaat
5260
 ||||| ||||| || |||| | | ||||| || | | |||||
Sbjct: 4490318 attaattattttataatataattgacttggttagcttaattgggttaaagccttgattaat
4490377

Query: 5261 aatgtgaaagtcaaaagttcaattcttacttgatcattaatttttaaattaatt 5314
 ||| |||| | |||| | |||| |||| ||||| |||||
Sbjct: 4490378 aatacaaaagttacaagtttaagtcttgaatggactattaatttttaaattaatt 4490431

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| |||||
Sbjct: 4630018 ctttttttttaaaaaaaaaaaaaa 4629997

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5543 tgaacttttttttaaaaaaaaaa 5564
 ||||||||||||||||||
Sbjct: 31810085 tgaacttttttttaaaaaaaaaa 31810106

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||
Sbjct: 33552343 ttttttttaaaaaaaaaaaaaaac 33552322

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 35228102 acttttttttaaaaaaaaaaaaaa 35228123

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaaaca 5571
 ||||||||| ||||||||||||||
Sbjct: 35331496 acttttttttaaaaaaaaaaaaaaaca 35331471

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 36027842 ctttttttttaaaaaaaaaaaaaa 36027821

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 6285 aaaattgtttgtatttttatttttt 6310
 |||||||
Sbjct: 37630655 aaaattgtttgtatttttatcctttt 37630630

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttta 6286
 |||||||
Sbjct: 37962437 tttttttttgttttgtttta 37962458

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 3887 ttttgtaaaaatgattttttt 3908
 |||||||
Sbjct: 38898887 ttttgtaaaaatgattttttt 38898866

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattatttt 5034
 |||||||
Sbjct: 40026486 aataattttaataaattatttt 40026465

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 5162 taaataacattagaaatttttagtggttatattta 5195

||||| ||| ||||| |||||
Sbjct: 40266968 taaatatatatataaaaaattttaatgttatattta 40266935

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 2722776 ttttttttaaaaaaaaaaaaaa 2722796

Score = 42.1 bits (21), Expect = 1.6
Identities = 39/45 (86%)
Strand = Plus / Minus

Query: 5308 attaatTTgtaaaatatatTTTTgaaaaaaaaattataaaaaaat 5352
||||| | ||||| |||||
Sbjct: 3162242 attaatTTgtaaaacaattTTTTgaaaaaaaaattttaaaaaaat 3162198

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6494 ttaaaaaatatatatttaact 6514
|||||
Sbjct: 3234332 ttaaaaaatatatatttaact 3234312

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5545 aactTTTTTTtaaaaaaaaaa 5565
|||||
Sbjct: 3490251 aactTTTTTTtaaaaaaaaaa 3490271

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5543 tgaacttttttttaaaaaaaaaa 5563
|||||
Sbjct: 3782724 tgaacttttttttaaaaaaaaaa 3782704

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 4187388 ctttttttttaaaaaaaaaaaaaa 4187368

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 4213889 ttttttttttaaaaaaaaaaaaaa 4213869

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaat 5352
|||||
Sbjct: 4296404 aaaaaaaaaattataaaaaaat 4296384

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 3884 tgattttgtaaaaatgatttt 3904
|||||
Sbjct: 4335102 tgattttgtaaaaatgatttt 4335082

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 4967329 ttttttttaaaaaaaaaaaaaa 4967349

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5565
|||||||
Sbjct: 5577936 aacttttttttaaaaaaaaaaaaaa 5577916

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
||||||| ||| |||
Sbjct: 5948476 gccttatcccaccaggttaagggttggtacatggatca 5948512

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5323 atatttttgaaaaaaaaaatta 5343
|||||||
Sbjct: 6354562 atatttttgaaaaaaaaaatta 6354582

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5331 gaaaaaaaaattataaaaaaa 5351
|||||||
Sbjct: 7152896 gaaaaaaaaattataaaaaaa 7152916

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 8094884 aactttttttttaaaaaaaaaa 8094864

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 3892 taaaaatgattttttttaaat 3912
 |||||
Sbjct: 10603226 taaaaatgattttttttaaat 10603246

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 10684561 tttttttttaaaaaaaaaa 10684581

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 1650 tatcccactaggtggggtcggctacatggatca 1682
 ||||| ||||| || |||||
Sbjct: 13198096 tatcccattaggtgaggttggtacatggatca 13198064

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5568

|||||
Sbjct: 14853184 tttttttttaaaaaaaaaaaaaa 14853204

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 5750 aaatttgctaaaagatccttaaactttaattgaaaaa 5786
||||| || ||| ||||| ||||| |||||
Sbjct: 16056120 aaatttgcaaagagattcttaaattttaattgaaaaa 16056084

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 26067854 tttttttttaaaaaaaaaaaaaa 26067834

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 26109047 ctttttttttaaaaaaaaaaaaaa 26109067

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaaaca 5571
||||| ||||| ||||| |||||
Sbjct: 29485855 ctttttttttaaaaaaaaaaaaaaaca 29485831

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5319 aaatatatTTTTGAAAAAAAA 5339
 | | | | | | | | | | | | | | | |
Sbjct: 30909533 aaatatatTTTTGAAAAAAAA 30909553

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5022 aataaattatTTTTatgaataa 5042
 | | | | | | | | | | | | | | | |
Sbjct: 32691334 aataaattatTTTTatgaataa 32691354

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 2582 aataatattTTTTTTTctttct 2602
 | | | | | | | | | | | | | | | |
Sbjct: 34153020 aataatattTTTTTTTctttct 34153040

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttAAAAAAAAAAAAA 5568
 | | | | | | | | | | | | | | | |
Sbjct: 34701303 ttttttttAAAAAAAAAAAAA 34701283

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttAAAAAAAAAAAAA 5568
 | | | | | | | | | | | | | | | |
Sbjct: 35017627 ttttttttAAAAAAAAAAAAA 35017607

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6058 ataaaaaaaaaattaattatatt 6078
 ||||||||||||||||||||
Sbjct: 35370338 ataaaaaaaaaattaattatatt 35370318

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5306 aaattaatttgtaaaatatatattttt 5330
 ||||||||||||||||| ||||||||
Sbjct: 36598919 aaattaatttgtaaaacatatattttt 36598943

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 37111499 tttttttttaaaaaaaaaaaaaa 37111479

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 5187 ttatatatttagtgaaattaattatattttataacataatt 5223
 |||||| || ||| ||||||||||||||||| ||||||
Sbjct: 37276287 ttatatataatgatattaattatattttataatataatt 37276251

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||| ||||||||||||||||
Sbjct: 37658820 aactttttttttaaaaaaaaaaaaaaac 37658844

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

```
Query: 1646      gccttatcccactaggtggggtcggctacatggatca 1682
                |||||
Sbjct: 37683501 gccttatcccactaggtgaggttgactacatgaatca 37683465
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 38812645 ttttttttaaaaaaaaaaaaaa 38812625
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 38970365 ttttttttaaaaaaaaaaaaaa 38970385
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 39076712 ttttttttaaaaaaaaaaaaaa 39076692
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 4882      tttcttttatttttattttgttcct 4906
```

```

      |||||||||||||||||
Sbjct: 39457290 tttctttttatttttattttgctcct 39457314

```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```

Query: 5548      tttttttttaaaaaaaaaaaaaacaag 5572
      |||||||||||||||||
Sbjct: 39766926 tttttttttaaaaaaaaaaatacaag 39766902

```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```

Query: 2579      gttaaataatattttttttctt 2599
      |||||||||||||||||
Sbjct: 40206862 gttaaataatattttttttctt 40206882

```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```

Query: 5547      ctttttttttaaaaaaaaaaaaaa 5567
      |||||||||||||||||
Sbjct: 40238445 ctttttttttaaaaaaaaaaaaaa 40238425

```

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

```

Query: 1646      gccttatcccactaggtggggctcggtacatggatca 1682
      ||||||||||||| ||||| ||| ||||| |||||
Sbjct: 40590032 gccttatcccaataggtgaggttggtatatggatca 40589996

```

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 1364 ttgcactactgcatgggcctggcgaccc 1392
 ||||| ||| |||||
Sbjct: 40623170 ttgcactattgcacgggcctggcgaccc 40623198

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Plus

Query: 1646 gccttatccactaggtggggtcggctacatggatc 1681
 ||||| || ||| || |||||
Sbjct: 18795 gccttatccctcttggtgaggttggtacatggatc 18830

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 4788 taataattaataagtaataatttt 4811
 ||||| |||||
Sbjct: 386293 taataattaataagaaataatttt 386316

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
 ||||| |||||
Sbjct: 955382 ttttttttaaaaaaataaaaca 955405

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 ||||| |||||
Sbjct: 1339582 ttttttttaaaaaaaaaaaaa 1339601

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 1669326 ttttttttaaaaaaaaaaaaaa 1669345

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 1868755 ttttttttaaaaaaaaaaaaaa 1868774

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Plus

Query: 6276 ttttgttttaaaattgtttgatTTTTTTTTTT 6311
 ||| ||||| ||||| |||||
Sbjct: 2095953 ttttcttttaaaattgtttattcttttTTTTTTTTT 2095988

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6352 acaatattatTTTTcatatg 6371
 |||||
Sbjct: 2736096 acaatattatTTTTcatatg 2736077

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5211 ttataacataattgatgtat 5230
 |||||
Sbjct: 2825082 ttataacataattgatgtat 2825063

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5318 aaaatatatTTTTGAAAAAAAAATTATAAAAA 5349
 ||||| ||||| ||| |||||
Sbjct: 2864903 aaaatagatTTTTGAGAAATAATTATAAAAA 2864934

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 TTTTTTTAAAAAAAAAAAAACAA 5571
 ||||| ||||| |||||
Sbjct: 2951741 TTTTTTTAAAAAAAAATAACAA 2951764

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 TTTTTTTAAAAAAAAAAAAA 5567
 ||||| ||||| |||||
Sbjct: 2952412 TTTTTTTAAAAAAAAAAAAA 2952431

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 TTTTTTTAAAAAAAAAAAAA 5567
 ||||| ||||| |||||
Sbjct: 3652109 TTTTTTTAAAAAAAAAAAAA 3652128

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6298 TTTTATTTTTTTGTTATT 6317

|||||
Sbjct: 4241870 tttttattttttttgttatt 4241889

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
|||||
Sbjct: 4967344 tttttttttaaaaaaaaaaaaa 4967325

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
|||||
Sbjct: 8486595 aaaaaaaaaattataaaaaaa 8486614

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
|||||
Sbjct: 8616515 tttttttttaaaaaaaaaaaaa 8616534

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaa 5566
|||||
Sbjct: 9297708 cttttttttaaaaaaaaaaaaa 9297727

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 7306 cagccaccatcccatgcgagagtc 7329
 |||||
Sbjct: 10113811 cagccaccatcccaggcgagagtc 10113788

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 18393356 tttttttttaaaaaaaaaaaaaa 18393337

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6292 tttgtatttttattttttttt 6311
 |||||
Sbjct: 18414704 tttgtatttttattttttttt 18414723

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5536 ttgttattgaacttttttttt 5555
 |||||
Sbjct: 21051887 ttgttattgaacttttttttt 21051906

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5317 taaaatatatttttgaaaaaaaaa 5340
 |||||
Sbjct: 23834835 taaaatatatatttgaaaaaaaaa 23834858

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6441 ttttattttatttgattattataa 6464
|||||||
Sbjct: 24370077 ttttattttattttattattataa 24370054

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 4877 aagtttttcttttatttttatttt 4900
|||||||
Sbjct: 24529508 aagtttttcttttatttttatttt 24529485

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 24568282 ttttttttaaaaaaaaaaaaaa 24568301

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 24614516 ttttttttaaaaaaaaaaaaaa 24614497

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 1652 tcccactaggtggggtcggctacatggatcaa 1683
||||||| || |||||
Sbjct: 25131112 tcccactaggttgatcggctacattgatcaa 25131143

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 25306296 tttttttttaaaaaaaaaaaaaa 25306277

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5193 ttagtgaaattaattatattt 5212
 ||||||||||||||||||
Sbjct: 25870479 ttagtgaaattaattatattt 25870460

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaatgaa 5355
 |||||||||| ||||||||||
Sbjct: 26180207 aaaaaaaaaattttaaaaaaatgaa 26180184

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaattt 5315
 ||||||||||||||||||
Sbjct: 28891151 cattaatttttaaattaattt 28891132

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571

|||||
Sbjct: 29994298 ttttttttaaaaaaaaaataaacia 29994275

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6269 ttttttgttttgttttaaaa 6288
|||||
Sbjct: 30210749 ttttttgttttgttttaaaa 30210768

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaact 6514
|||||
Sbjct: 30632930 aaattaaaaattatatatttaact 30632953

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacia 5571
|||||
Sbjct: 30713430 ttttttttaaaaaaaaaataaacia 30713453

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacia 5571
|||||
Sbjct: 30713678 ttttttttaaaaaaaaaataaacia 30713701

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaa 5566
 |||||
Sbjct: 31039915 ctttttttttaaaaaaaaaaaa 31039934

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaa 5568
 |||||
Sbjct: 31302660 ttttttttaaaaaaaaaaaa 31302679

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5016 aattttaataaattatttta 5035
 |||||
Sbjct: 31560064 aattttaataaattatttta 31560045

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5171 attagaaatttttagtggtat 5190
 |||||
Sbjct: 31706993 attagaaatttttagtggtat 31706974

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4880 tttttcttttatttttattt 4899
 |||||
Sbjct: 32262937 tttttcttttatttttattt 32262956

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 32427551 tttttttttaaaaaaaaaaaaaa 32427532

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5324 tatttttgaaaaaaaaaatta 5343
 ||||||||||||||||||
Sbjct: 32542978 tatttttgaaaaaaaaaatta 32542959

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 33061453 tttttttttaaaaaaaaaaaaaa 33061434

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6266 tttttttttgttttgttttaaaat 6289
 |||||||||||||||||| ||||
Sbjct: 33271592 tttttttttgttttgttttaaaat 33271615

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 33968546 tttttttttaaaaaaaaaaaaaa 33968565

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5324 tatttttgaaaaaaaaaatta 5343
 |||||
Sbjct: 34513902 tatttttgaaaaaaaaaatta 34513883

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6436 tgtatttttattttatttgattat 6459
 |||| |
Sbjct: 34535873 tgtaattttattttatttgattat 34535850

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6488 ttgaaattaaaaaatatata 6507
 |||||
Sbjct: 34982373 ttgaaattaaaaaatatata 34982354

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 36209883 ttttttttttgttttgtttt 36209902

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaa 5565

|||||
Sbjct: 37057462 actttttttttaaaaaaaaaa 37057481

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5567
|||||
Sbjct: 37113534 tttttttttaaaaaaaaaa 37113515

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaa 5566
|||||
Sbjct: 37439797 cttttttttaaaaaaaaaa 37439816

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaca 5571
|||||
Sbjct: 37483963 tttttttttaaaaaaaaaataca 37483940

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5567
|||||
Sbjct: 37514929 tttttttttaaaaaaaaaa 37514910

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 38787916 tttttttttaaaaaaaaaaaaaa 38787935

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 | | | | | | | | | | | | | | | |
Sbjct: 39430851 ctttttttttaaaaaaaaaaaaaa 39430832

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4881 ttttccttttatttttatttt 4900
 | | | | | | | | | | | | | | | |
Sbjct: 39548548 ttttccttttatttttatttt 39548567

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 39733122 ttttttttaaaaaaaaaaaaaa 39733141

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 40465276 tttttttttaaaaaaaaaaaaaa 40465295

Score = 40.1 bits (20), Expect = 6.4
 Identities = 23/24 (95%)
 Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||||||||||||||
 Sbjct: 41636809 ttttttttaaaaaaaaaataaaca 41636832

>[gb|CM000837.1](#) Glycine max chromosome 4, whole genome shotgun sequence
 Length = 49243852

Score = 1600 bits (807), Expect = 0.0
 Identities = 813/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||
 Sbjct: 5966163 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 5966104

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
 1762
 ||||||||||||||||||
 Sbjct: 5966103 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
 5966044

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
 1822
 ||||||||||||||||||
 Sbjct: 5966043 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctagtctact
 5965984

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882
 ||||||||||||||||||
 Sbjct: 5965983 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 5965924

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
 1942
 ||||||||||||||||||
 Sbjct: 5965923 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
 5965864

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002
 ||||||||||||||||||

Sbjct: 5965863 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 5965804

Query: 2003 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 5965803 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
 5965744

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 5965743 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
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Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 5965683 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 5965624

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 5965623 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 5965564

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 5965563 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 5965504

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 5965503 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 5965444

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 5965443 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 5965384

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 5965383 tctgcaaaaagcatgcatctcggcgctatctcttg 5965349

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 6147753 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
6147694

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 6147693 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
6147634

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 6147633 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
6147574

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 6147573 ctctcactacagagtctaccggtcttctctctcgacatgcccaaaccacctaagtctattt
6147514

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
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Sbjct: 6147513 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
6147454

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 6147453 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
6147394

Query: 2003 actttattctcatgttgggtcttggaccgcccacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 6147393 actttattctcatgttgggtcttggaccgcccacattctgttccgtacaaaatcgccgggt
6147334

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 6147333 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
6147274

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 6147273 acccccgatgctttttctccatttcatccatcctgcttgaatgcatgattcacatccct
6147214

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 6147213 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
6147154

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 6147153 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
6147094

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 6147093 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
6147034

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 6147033 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
6146974

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 6146973 tctgcaaaaagcatgcatctcggcgcttctcttg 6146939

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 11866534 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
11866475

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcccttttgataacctctctt
1762

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Sbjct: 11866474 tcaagtaccatacttctatccaaaccattaatttcgagatcccttttgataacctctctt
11866415

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 11866414 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
11866355

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 11866354 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
11866295

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 11866294 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
11866235

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 11866234 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
11866175

Query: 2003 actttattctcatggttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 11866174 actctattctcatggttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
11866115

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 11866114 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
11866055

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

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Sbjct: 11866054 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
11865995

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 11865994 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
11865935

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 11865934 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
11865875

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 11865874 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
11865815

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 11865814 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
11865755

Query: 2423 tctgcaaaaagcatgcatctcggcgtatctcttg 2457

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Sbjct: 11865754 tctgcaaaaagcatgcatctcggcgtatctcttg 11865720

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 12287898 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
12287957

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 12287958 tcaagtaccataatttctatccaaatcattaagttcgagatcctttttgataacctctctt
12288017

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 12288018 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctggtctact
12288077

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 12288078 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
12288137

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 12288138 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
12288197

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 12288198 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12288257

Query: 2003 actttattctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 12288258 actttattctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
12288317

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 12288318 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
12288377

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 12288378 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
12288437

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 12288438 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
12288497

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 12288498 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
12288557

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 12288558 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
12288617

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 12288618 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
12288677

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 12288678 tctgcaaaaagcatgcatctcggcgctatctcttg 12288712

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 17993462 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17993403

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 17993402 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttgataacctctctt
17993343

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 17993342 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatttgggtctact
17993283

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 17993282 ctctcactacagagtctaccagttcttctctctacatgccccaaaccacctaagtctattt
17993223

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 17993222 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
17993163

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 17993162 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
17993103

Query: 2003 actttattctcatgttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 17993102 actttattctcatgttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
17993043

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 17993042 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
17992983

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 17992982 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
17992923

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 17992922 tcaatttccccatcatcctgtattacaggcccaagatatattaaaccgtgtgacttgaggg
17992863

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 17992862 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
17992803

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 17992802 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
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Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 17992742 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 17992683

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 17992682 tctgcaaaaagcatgcatctcggcgctatctcttg 17992648

Score = 1584 bits (799), Expect = 0.0
 Identities = 811/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 41325540 aacgccttatccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
 41325481

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
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 Sbjct: 41325480 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 41325421

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 41325420 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggttact
 41325361

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
 1882

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 41325301

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

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 Sbjct: 41325300 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 41325241

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 41325240 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41325181

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 41325180 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
41325121

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 41325120 cttaccgcagtcgataaaaactttccctttaacttgatcggtacctttgcatcacataac
41325061

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 41325060 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
41325001

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 41325000 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
41324941

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 41324940 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
41324881

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 41324880 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41324821

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 41324820 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
41324761

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 41324760 tctgcaaaaagcatgcatctcggcactatctcttg 41324726

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 42532677 aacgccttatcccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
42532618

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 42532617 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
42532558

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
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42532498

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
1882
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Sbjct: 42532497 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
42532438

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 42532437 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
42532378

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 42532377 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
42532318

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 42532317 actttattctcatgttggctcttgaccgccaacattctgttctgtacaaaatcgccggt
 42532258

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 42532257 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 42532198

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

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 Sbjct: 42532197 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 42532138

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 42532137 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 42532078

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 42532077 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 42532018

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 42532017 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 42531958

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 42531957 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 42531898

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 42531897 tctgtaaaaagcatgcatctcggcgctatctcttg 42531863

Score = 1576 bits (795), Expect = 0.0
 Identities = 810/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 8595751 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
8595692

Query: 1703 tcaagtaccataacttctatccaaaccattaatttgcgagatcctttttgataacctctctt
1762

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Sbjct: 8595691 tcaagtaccataacttgcgatccaaaccattaatttgcgagatcctttttataacctctctt
8595632

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 8595631 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
8595572

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 8595571 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
8595512

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 8595511 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
8595452

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 8595451 attttatcctgtcgagtcttaccacacatccaccgcaacatccttatctccgctacacct
8595392

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 8595391 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
8595332

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 8595331 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
8595272

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 8595271 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 8595212

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 8595211 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 8595152

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaaactta
 2302

|||||
 Sbjct: 8595151 ataatatgggtctcctattttccctctgagttagaaatcctccttcttttgttgaaactta
 8595092

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 8595091 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 8595032

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 8595031 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 8594972

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 8594971 tctgcaaaaagcatgcatctcggcgctatctcttg 8594937

Score = 1576 bits (795), Expect = 0.0
 Identities = 810/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 47169409 aacgccttatctcactaggtggggctcggctacatggatcaacttctgccataatgttcta
 47169350

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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Sbjct: 47169349 tcaagtatcatactttctatccaaaccattaatttcgagatcctttttgataacctctctt
47169290

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 47169289 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
47169230

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 47169229 ctctcactacagagtctatcggtcttctctctacatgcccaaaccacctaagtctattt
47169170

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 47169169 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
47169110

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 47169109 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
47169050

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 47169049 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
47168990

Query: 2063 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 47168989 ctaccgcagtcgataaaaactttccctttaacttgatcggtacctttgcatcacataac
47168930

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 47168929 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
47168870

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaacggtgtgacttgaggg
2242

|||||

Sbjct: 47168869 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
47168810

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 47168809 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
47168750

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 47168749 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
47168690

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 47168689 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
47168630

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 47168629 tctgcaaaaagcatgcatctcggcgctatctcttg 47168595

Score = 1570 bits (792), Expect = 0.0
Identities = 811/816 (99%), Gaps = 1/816 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 48164979 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
48164920

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 48164919 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
48164860

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 48164859 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
48164800

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 48164799 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
48164740

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 48164739 tccaccatcttctctacaataggcgctactccaaccatctctctaataagcttcgtttcta
48164680

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 48164679 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
48164620

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 48164619 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaattgccggt
48164560

Query: 2063 cttta-ccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
2121

|||||
Sbjct: 48164559 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
48164500

Query: 2122 ccccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccc
2181

|||||
Sbjct: 48164499 ccccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccc
48164440

Query: 2182 ttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2241

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Sbjct: 48164439 ttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
48164380

Query: 2242 gataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactt
2301

|||||
Sbjct: 48164379 gataatatggtctcctattttccactctgagttaaaaaccctccttcttttggtgaactt
48164320

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
2361

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Sbjct: 48164319 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
48164260

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

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Sbjct: 48164259 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
48164200

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 48164199 atctgcaaaaagcatgcatctcggcgctatctcttg 48164164

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 3134693 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
3134634

Query: 1703 tcaagtaccatacttctatccaaaccatttaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 3134633 tcaagtaccatacttctatccaaatcatttaagttcgagatcctttttgataacctctctt
3134574

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 3134573 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
3134514

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 3134513 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
3134454

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

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Sbjct: 3134453 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
3134394

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 3134393 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctgcacct
3134334

Query: 2003 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 3134333 actttattctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgctggt
3134274

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 3134273 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
3134214

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 3134213 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
3134154

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 3134153 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
3134094

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 3134093 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
3134034

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

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Sbjct: 3134033 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctaaagctcgt
3133974

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 3133973 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
3133914

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 3133913 tctgcaaaaagcatgcatctcggcgctatctcttg 3133879

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 7065171 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
7065230

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 7065231 tcaagtacaatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
7065290

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 7065291 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctgggtctact
7065350

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||||
Sbjct: 7065351 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
7065410

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
1942
|||||||
Sbjct: 7065411 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
7065470

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 7065471 attttatcctgtcgagtcttaccacacatccatcgcaacatcctcatctccgctacacct
7065530

Query: 2003 actttattctcatggttggtcttgaccgcccacattctgttcgtagacaaaatcgccggt
2062

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Sbjct: 7065531 actttattctcatggttggtcttgaccgcccacattctgttcgtagacaaaatcgccggt
7065590

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 7065591 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
7065650

Query: 2123 acccccgatgctttttctccatttcattcatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 7065651 acccccgatgctttttctccatttcattcatcctgcttgaatgcgatgattcacatcccct
7065710

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 7065711 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
7065770

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 7065771 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
7065830

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 7065831 cattccatatactccgatttgcttctgcttaggcgaaagtcagtgtgtttctagagctcgt
7065890

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 7065891 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
7065950

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 7065951 tctgcaaaaagcatgcatctcggcgctatctcttg 7065985

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 40283842 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
40283783

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 40283782 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
40283723

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 40283722 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40283663

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaaggtctattt
1882

|||||
Sbjct: 40283662 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaaggtctattt
40283603

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 40283602 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
40283543

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 40283542 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
40283483

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 40283482 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
40283423

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 40283422 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtagctttgcatcacataac
 40283363

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182

|||||
 Sbjct: 40283362 acccccgatgcttttctccatttcatccatactgcttgaatgcgatgattcacatcccct
 40283303

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 40283302 tcaatttcccatcatcctgtattaccgaccaagatatattaaactgtgtgacttgaggg
 40283243

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 40283242 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 40283183

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 40283182 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 40283123

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 40283122 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 40283063

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 40283062 tctgcaaaaagcatgcatctcggcgctatctcttg 40283028

Score = 1560 bits (787), Expect = 0.0
 Identities = 808/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 44045059 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 44045118

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 44045119 tcaagtactatacttctatccaaaccattaatttcgagatcctttttataacctctctt
44045178

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 44045179 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
44045238

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 44045239 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtatattt
44045298

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 44045299 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
44045358

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 44045359 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
44045418

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 44045419 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
44045478

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 44045479 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
44045538

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 44045539 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
44045598

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 44045599 tcaatttccctatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
44045658

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 44045659 ataatatgatctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
44045718

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 44045719 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
44045778

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 44045779 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
44045838

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 44045839 tctgcaaaaagcatgcatctcgacgctatctcttg 44045873

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 5453037 aacgccttatcccactaggtgggggtcagctacatggatcaacttccgccataatgttcta
5452978

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|
Sbjct: 5452977 ttaagtaccatacttttatccaaatcattaagttcgagatcctttttgataacctctctt
5452918

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 5452917 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
5452858

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 5452857 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5452798

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 5452797 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
5452738

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 5452737 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
5452678

Query: 2003 actttattctcatgttggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 5452677 actttattctcatgttggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
5452618

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 5452617 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
5452558

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 5452557 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
5452498

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 5452497 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5452438

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 5452437 ataatatggtctcctatccccacctctgagttagaaaccctccttctattgttgaactta
5452378

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 5452377 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
5452318

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 5452317 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaagactatgtca
5452258

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 5452257 tctgcaaaaacatgcatctcggcgctatctcttg 5452223

Score = 1552 bits (783), Expect = 0.0

Identities = 807/815 (99%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 44939329 aacgccttatcccactaggtggggtcggctacatgaatcaacttccgccataatgttcta
44939388

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 44939389 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
44939448

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 44939449 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
44939508

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 44939509 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
44939568

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 44939569 tccaccatcttctctataataggcgctactccaaccctctctctaatagcttcgtttcta
44939628

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 44939629 attttatcctgtcgggtcttaccacacatccaccgcaacatcctcatctccgctacacct
44939688

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 44939689 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
44939748

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 44939749 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
44939808

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 44939809 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
44939868

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 44939869 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
44939928

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 44939929 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
44939988

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 44939989 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
44940048

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

Sbjct: 44940049 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
44940108

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

Sbjct: 44940109 tctgcaaaagagcatgcatctcggcgctatctcttg 44940143

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

Sbjct: 25551441 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
25551382

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 25551381 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
25551322

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

Sbjct: 25551321 atagtctttttgggtcttcctctacctcgaattgtttgccttctctccatctgggtctact
25551262

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

Sbjct: 25551261 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
25551202

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

Sbjct: 25551201 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcatttcta
25551142

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 25551141 attttatcctgtcgagtcttaccacacatccaccgcaacattctcatctccgctacacct
25551082

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 25551081 actttattctcatgttggtctcttgaccgccaacattctgttccgcacaaaatcgccggt
25551022

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 25551021 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
25550962

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 25550961 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
25550902

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 25550901 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
25550842

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacta
2302

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Sbjct: 25550841 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaacta
25550782

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 25550781 cattccatataactccgatttgcttctgcttaggcgaaaagccatgtgtttctagagctcgt
25550722

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 25550721 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
25550662

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 25550661 tctgcaaaaagcatgcatctcggcgctatctcttg 25550627

Score = 1542 bits (778), Expect = 0.0
Identities = 805/814 (98%)
Strand = Plus / Minus

Query: 1644 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
1703
Sbjct: 25674104 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
25674045

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
1763
Sbjct: 25674044 caagtaccatacttctatccaaaccattgagttcgagatcctttttgataacctctctta
25673985

Query: 1764 tagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
1823
Sbjct: 25673984 tagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
25673925

Query: 1824 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
1883
Sbjct: 25673924 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
25673865

Query: 1884 ccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttctaa
1943
Sbjct: 25673864 ccaccatcttctctacaatcggcgctactccaaccctctctctaatagtctcgtttctaa
25673805

Query: 1944 ttttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
2003
Sbjct: 25673804 ttttatcctgtctagtcttaccacacatccaccgcaacatcctcatctccgctataccta
25673745

Query: 2004 ctttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccgggtc
2063
Sbjct: 25673744 ctttattctcatgttgggtcttgaccgcccagcattctgttccgtacaaaatcgccgggtc
25673685

Query: 2064 ttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataaca
2123

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Sbjct: 25673684 ttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataaca
25673625

Query: 2124 ccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccctt
2183

|||||
Sbjct: 25673624 ccccgatgctttctctccatttcatccatcccgcttgaatgcatgattcacatcccctt
25673565

Query: 2184 caatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggga
2243

|||||
Sbjct: 25673564 caatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggga
25673505

Query: 2244 taatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttac
2303

|||||
Sbjct: 25673504 taatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttac
25673445

Query: 2304 attccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtc
2363

|||||
Sbjct: 25673444 attccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtc
25673385

Query: 2364 tccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcat
2423

|||||
Sbjct: 25673384 tccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcat
25673325

Query: 2424 ctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 25673324 ctgcaaaaagcatgcatctcggcgctatctcttg 25673291

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 28405510 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
28405451

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 28405450 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
28405391

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

Sbjct: 28405390 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtttact
28405331

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 28405330 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
28405271

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

Sbjct: 28405270 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
28405211

Query: 1943 attttatcctgtcgaagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 28405210 attttatcctgtcgaatcttaccacacatccaccgcaacatcctcatctctgctacacct
28405151

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

Sbjct: 28405150 actttattctcatggttggtctcttgaccgccaacattttgttccgtacaaaatcgccggt
28405091

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 28405090 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
28405031

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

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Sbjct: 28405030 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
28404971

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 28404970 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
28404911

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 28404910 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
28404851

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 28404850 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
28404791

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 28404790 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
28404731

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 28404730 tctgcaaaaagcatgcatctcggcgctatctcttg 28404696

Score = 1534 bits (774), Expect = 0.0
Identities = 804/814 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 40553643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
40553584

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 40553583 tcaagtaccatacttctatccaaatcattaagttcagagatcctttttgataacctctctt
40553524

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 40553523 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
40553464

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

|||||
Sbjct: 40553463 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
40553404

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 40553403 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
40553344

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 40553343 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
40553284

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 40553283 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccgat
40553224

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 40553223 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40553164

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 40553163 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
40553104

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 40553103 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
40553044

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 40553043 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaacata
40552984

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 40552983 cattccatataactccgatttgcttctgcttaggcgaaaacccatgtgtttctagagctcgt
40552924

Query: 2363 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 40552923 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
40552864

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctctt 2456

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Sbjct: 40552863 tctgcaaaaagcatgcatctcgacactatctctt 40552830

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 18200424 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
18200365

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 18200364 tcaagtaccatacttctatccaaatcattaagttcgagatccttttgataacctctctt
18200305

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 18200304 atagtctttttgggtcttcctctgcctcgaattgtttgccttatctccatctgggtctact
18200245

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtcatttt
1882

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Sbjct: 18200244 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
18200185

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 18200184 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
18200125

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 18200124 attttatcctgccgagtcttaccacacatccactgcaacatcctcatctccgctacacct
18200065

Query: 2003 actttattctcatggttggtctcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 18200064 actttattctcatggttggtctcttgaccgccccaacattctgttccgtacaaaatcgccggt
18200005

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 18200004 cttactgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18199945

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 18199944 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
18199885

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

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Sbjct: 18199884 tcaatttctccatcatcctgtattacaaacccaagatatattaaccggtgtgacttgaggg
18199825

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 18199824 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
18199765

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18199764 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
18199705

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18199704 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18199645

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 18199644 tctgcaaaaagcatgcatctcggcgctatctcttg 18199610

Score = 1521 bits (767), Expect = 0.0
Identities = 804/815 (98%), Gaps = 1/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 45914495 aacgtcttatcccattaggtggggtcggctacatggatcaacttccgccataatgttcta
45914436

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 45914435 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
45914376

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 45914375 atagtctttttgggtcttcc-ctgcctcgaattgtttgtcttctctccatctgggtctact
45914317

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
1882

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Sbjct: 45914316 ctctcactatagagtctaccggtcttctctttacatgcccacacctaaggtctatatt
45914257

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 45914256 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
45914197

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 45914196 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacatct
45914137

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 45914136 actttattctcatgttggctcttgaccgccaacattctattccatacaaaaatcgccggt
45914077

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 45914076 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
45914017

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 45914016 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccg
45913957

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 45913956 tcaatttccccatcatcctgtattacagaccaagatatattaaatcgtgtgacttgaggg
45913897

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 45913896 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
45913837

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 45913836 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
45913777

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 45913776 ctccaagtttccaacctctcattcagctcctccctcgactctccaaggaggactatgtca
45913717

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 45913716 tctgcaaaaagcatgcatctcggcgctatctcttg 45913682

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 38409019 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
38409078

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 38409079 tcaaataccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
38409138

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 38409139 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
38409198

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 38409199 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
38409258

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 38409259 tccaccatcttctctacaataggcactactccaaccctctctctaataagcttcgtttcta
38409318

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 38409319 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38409378

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
| |||||

Sbjct: 38409379 aatttaatctcatgttggctcttgaccgcccacattctgttcggtacaaaaatcgccggt
38409438

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 38409439 cttaccgcagtcgataaaaactttcccttagcttgatcggtacatttgcatcacataac
38409498

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

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Sbjct: 38409499 acccccgatgcttttctccatttcatccatcctgcttgaatgtgatgattcacatcccct
38409558

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 38409559 tcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
38409618

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 38409619 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
38409678

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 38409679 cattccatatactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
38409738

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 38409739 ctccaagtttccaacctctcattcaactcctccctcgactccccaaggaggactatgtca
38409798

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 38409799 tctgcaaaaagcatgcatctcggcgctatctcttg 38409833

Score = 1505 bits (759), Expect = 0.0
Identities = 798/811 (98%)
Strand = Plus / Plus

Query: 1647 ccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatcaa
1706

|||||
Sbjct: 19101392 ccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatcaa
19101451

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
1766

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Sbjct: 19101452 gtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctcttatag
19101511

Query: 1767 tctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctactctcc
1826

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Sbjct: 19101512 tctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctactctcc
19101571

Query: 1827 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcca
1886

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Sbjct: 19101572 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcca
19101631

Query: 1887 ccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaattt
1946

|||||
Sbjct: 19101632 ccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaattt
19101691

Query: 1947 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctactt
2006

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Sbjct: 19101692 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgatacacctactt
19101751

Query: 2007 tattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccggtctta
2066

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Sbjct: 19101752 tagtctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcaccggtctta
19101811

Query: 2067 ccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataaacaccc
2126

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Sbjct: 19101812 ccgcagttcgataaaaactttcccttttagcttgattggtacctttgcatcacataaacaccc
19101871

Query: 2127 cccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
2186

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Sbjct: 19101872 cccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
19101931

Query: 2187 tttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgagggataa
2246

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Sbjct: 19101932 tttctccatcatcctggattacagacccaagatatttaaaccgtgtgacttgagggataa
19101991

Query: 2247 tatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaacttacatt
2306

|||||
Sbjct: 19101992 tatgggtctcctattttccacctctgagttagataccctcctacttttgttgaacttacatt
19102051

Query: 2307 ccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctcc
2366

|||||
Sbjct: 19102052 ccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctcc
19102111

Query: 2367 aagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctg
2426

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Sbjct: 19102112 aagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctg
19102171

Query: 2427 caaaaagcatgcatctcgggcgctatctcttg 2457

|||||
Sbjct: 19102172 caaaaagcatgcatctcgggcgctatctcttg 19102202

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 689159 aacgccttatcccactaggtggggctcggctatatggatcaacttccgtcataatgttcta
689218

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 689219 tcaagtaccatacttctatccaaatcattaagttcgagatcttttttgataacctctctt
689278

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 689279 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
689338

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 689339 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
689398

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 689399 tccaccatcttctctacaataggcgctactccaaccctctctctaataacttcgtttcta
689458

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 689459 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
689518

Query: 2003 actttattctcatggtgggtcttgaccgccaacattctgttcggtacaaaatcgccgggt
2062

|||||
Sbjct: 689519 actttattttcatggtgggtcttgaccgccaacattctgttcggtacaaaatcgccgggt
689578

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 689579 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
689638

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 689639 acccccgaagcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
689698

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 689699 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
689758

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 689759 ataatatgggtctcctattttcacctctgagttaaaaaccctccttcttttggtgaactta
689818

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 689819 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagcttgt
689878

Query: 2363 ctccaagttttcaacctctcattcaactcctcctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 689879 ctccaagttttcaacctctcattcaactcctcctcgactctccaaggaggactatgtca
689938

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 689939 tctgcaaaaagcatgcatctcggcgctatctcttg 689973

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 36345464 aacgccttatccactaggtggggctcgggtacatgaatcaacttccgtcataatgttcta
36345405

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 36345404 tcaagtaccatacttctatgcaaatacctaagttcgagatcctttttgataacctctctt
36345345

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 36345344 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
36345285

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 36345284 ttctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
36345225

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 36345224 tccaccatcttctctacagtaggcgctactccaaccctcttctctaatagtttcatttcta
36345165

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 36345164 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
36345105

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 36345104 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
36345045

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 36345044 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
36344985

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 36344984 acccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatcccct
36344925

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 36344924 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
36344865

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 36344864 ataatatggtctcctatttttcacctctgggttagaaaccctccttcttttgttgaactta
36344805

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 36344804 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
36344745

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 36344744 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
36344685

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 36344684 tctgcaaaaagcatgcatctcggcgctatttcttg 36344650

Score = 1465 bits (739), Expect = 0.0
Identities = 796/815 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 43105560 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
43105619

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 43105620 tcaaatatcatacttctatccaaatcatthaagttcgagatccttcttgataacctctctt
43105679

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 43105680 atagtctttttgggtcttcctttgtctcgaattgtttgccttctctccatctgggtctact
43105739

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

|||||
Sbjct: 43105740 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
43105799

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||

Sbjct: 43105800 ttcaccatcttctctacaataggcgctactccaaccctctctctaataagctccgtttcta
43105859

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 43105860 attttatcctgtcgagtcttaccacacatccatcgcaacatcctcatctccgctacacct
43105919

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 43105920 actttagtctcatggttggtccttgaccgccaacattgtgttccgtacaaaatcgctcggt
43105979

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 43105980 cttaccgcagtcgataaaaactttctctttagcttgatcggtacctttgcatcacataac
43106039

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 43106040 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
43106099

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 43106100 tcaatttctccatcatcctgtattacagactcaagatatattaaaccgtgtgacttgaggg
43106159

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 43106160 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
43106219

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 43106220 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
43106279

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 43106280 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
43106339

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||||||||||||||||||||||||||||
Sbjct: 43106340 tctgcaaaaagcatgcatctcggcgctatctcttg 43106374

Score = 1380 bits (696), Expect = 0.0
Identities = 699/700 (99%)
Strand = Plus / Minus

Query: 1758 ctcttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggt
1817
||||||||||||||||||||||||||||||||
Sbjct: 2430088 ctcttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggt
2430029

Query: 1818 ctactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtc
1877
||||||||||||||||||||||||||||||||
Sbjct: 2430028 ctactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtc
2429969

Query: 1878 tattttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgt
1937
||||||||||||||||||||||||||||||||
Sbjct: 2429968 tattttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgt
2429909

Query: 1938 ttctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgcta
1997
||||||||||||||||||||||||||||||||
Sbjct: 2429908 ttctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgcta
2429849

Query: 1998 cacctactttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcg
2057
||||||||||||||||||||||||||||||||
Sbjct: 2429848 cacctactttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcg
2429789

Query: 2058 ccggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcac
2117
||||||||||||||||||||||||||||||||
Sbjct: 2429788 ccggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcac
2429729

Query: 2118 ataacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacat
 2177
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 2429728 ataacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacat
 2429669

Query: 2178 ccccttcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgactt
 2237
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 2429668 ccccttcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgactt
 2429609

Query: 2238 gagggataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttga
 2297
 ||||||||||||| ||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 2429608 gagggataatatgatctcctattttccacctctgagttagaaaccctccttcttttgttga
 2429549

Query: 2298 acttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagag
 2357
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 2429548 acttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagag
 2429489

Query: 2358 ctcgctctcaagtttccaacctctcattcaactcctccctcgactctccaaggaggacta
 2417
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 2429488 ctcgctctcaagtttccaacctctcattcaactcctccctcgactctccaaggaggacta
 2429429

Query: 2418 tgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457
 ||||||||||||||||||||||||||||||||||||
 Sbjct: 2429428 tgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2429389

Score = 1376 bits (694), Expect = 0.0
 Identities = 712/718 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 45153986 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 45153927

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
Sbjct: 45153926 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
45153867

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 45153866 atagtctttttggatcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
45153807

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

|||||
Sbjct: 45153806 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
45153747

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 45153746 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
45153687

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 45153686 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45153627

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 45153626 acttttagtctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
45153567

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 45153566 cttaccgcagtcgataaaaactttccctttagcttaatcggtacctttgcatcacataac
45153507

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 45153506 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
45153447

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||

Sbjct: 45153446 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
45153387

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 45153386 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
45153327

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
2360

|||||
Sbjct: 45153326 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctc
45153269

Score = 1364 bits (688), Expect = 0.0
Identities = 791/816 (96%), Gaps = 7/816 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 19561815 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
19561874

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 19561875 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
19561934

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 19561935 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
19561994

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 19561995 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
19562054

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 19562055 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
19562114

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 19562115 attttatcatgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19562174

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 19562175 actttattctcatggttggtccttgaccaccaacattctgttccgtacaaaatcgctggt
19562234

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 19562235 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
19562294

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 19562295 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
19562354

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 19562355 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
19562414

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 19562415 ataatatggtctcctattttcacctctgagttag-aaccctccttcttttggtg-actta
19562472

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagcca-tgtgtttctagagctcg
2361

|||||
Sbjct: 19562473 cattccatatactccgattt-catctacttaggcg-aagccattgtgtttctagagctcg
19562530

Query: 2362 tctccaag-tttccaacctctcattcaactcctc-cctcgactctccaaggaggactatg
2419

||| ||| ||||| | ||||| ||| | ||| ||| |||||

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Query: 1943      attttatcctgtcgagttaccacacatccaccgcaacatcctcatctccgctacacct
2002            |||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 39435077 attttatcctgtcgagttaccacacatccaccgcaacatcctcatctccgctacacct
39435018
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Query: 2003 actttattctcatggtggctcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 39435017 actttattctcatggtggctcttgaccgccaacattctgttccgtacaaaatcgccggt
 39434958

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 39434957 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 39434898

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

|||||
 Sbjct: 39434897 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 39434838

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 39434837 tcaatttccccatcatcctgtattacaaaccaagatatttaaaccgtgtgacttgaggg
 39434778

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 39434777 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 39434718

Query: 2303 cattccatataactccgattt 2322

|||||
 Sbjct: 39434717 cattccatataactccgattt 39434698

Score = 1287 bits (649), Expect = 0.0
 Identities = 715/737 (97%)
 Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatcaa
 1706

|||||
 Sbjct: 2297049 ccttatcccactaggtggggtcggctacatggatcaacttctgccataatgttctatcaa
 2296990

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
 1766

|||||
Sbjct: 2296989 gtaccatacttctatccaaatcattaagttcgaaatccttcttgataacttctcttatag
2296930

Query: 1767 tctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctcc
1826

|||||
Sbjct: 2296929 tttttttgggtcttcctctgtctcgaattgtttgccttctctccatctgggtctactctcc
2296870

Query: 1827 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcca
1886

|||||
Sbjct: 2296869 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcca
2296810

Query: 1887 ccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttctaattt
1946

|||||
Sbjct: 2296809 ccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttctaattt
2296750

Query: 1947 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctactt
2006

|||||
Sbjct: 2296749 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctactt
2296690

Query: 2007 tatttctcatgttgggtctttgaccgcccacattctgttccgtacaaaatcgccgggtctta
2066

|| |||||
Sbjct: 2296689 tagtctcatgttgggtctttgaccgcccacattctgttccgtacaaaatcgccgggtctta
2296630

Query: 2067 ccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacaccc
2126

|||||
Sbjct: 2296629 ccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacaccc
2296570

Query: 2127 ccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
2186

| |||||
Sbjct: 2296569 ctgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
2296510

Query: 2187 tttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgagggataa
2246

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Sbjct: 45079931 ctcctcactacagagtctactgggtcttctctctacatgcctaaaccacctaagtctattt
45079990

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 45079991 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
45080050

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 45080051 attttatcctgtcgagtcttaccatacatccaccgcaacatcctcatctccactacacct
45080110

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 45080111 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
45080170

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 45080171 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
45080230

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 45080231 acccccgatgcttttctccatttcatccatcctgctcgaatgcgatgattcacatccct
45080290

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 45080291 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
45080350

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 45080351 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
45080410

Score = 785 bits (396), Expect = 0.0
Identities = 420/428 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 37023019 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
37022960

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 37022959 tcaagtatcatacttctatccaaatcattaagttcgagatcctttttaataacctctctt
37022900

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 37022899 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
37022840

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 37022839 ctctcactacaaagtctaccggtcttctctctacatgcccaaaccacctaagtctatgt
37022780

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 37022779 tccaccattttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
37022720

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 37022719 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
37022660

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 37022659 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgat
37022600

Query: 2063 cttaccgc 2070
|||||

Sbjct: 37022599 cttaccgc 37022592

Score = 734 bits (370), Expect = 0.0

Identities = 391/398 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 11249812 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatggttcta
11249753

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 11249752 tcaagtaccatacttctatccagaccattaatttcgagatcctttttataacctctctt
11249693

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 11249692 atagtctttttgggttttctctgacctgaattgtttgtcttctctccatctggtctact
11249633

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
1882

|||||
Sbjct: 11249632 ctctccctacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
11249573

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

|||||
Sbjct: 11249572 tccaccatcttctttacaataggcgctactccaaccctctctctaataagcttcggtttcta
11249513

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 11249512 attttatcctgtcgggtcttaccacacatccaccgcaacatcctcatctccgctacacct
11249453

Query: 2003 actttattctcatgttggtcttgaccgccaacattc 2040

|||||
Sbjct: 11249452 actttattctcatgttggtcttgaccgccaacattc 11249415

Score = 700 bits (353), Expect = 0.0
Identities = 365/369 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 12478280 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 12478221

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 ||||||||||||||||||||||||||||| ||||||| |||||||||||||||||||||||||||||
 Sbjct: 12478220 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 12478161

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
 |||||||||||||||||||||||||||||||||| |||||||||||||||||||||||||||||
 Sbjct: 12478160 atagtctttttgggtcttcctctgcctcgaattatttgtcttctctccatctgggtctact
 12478101

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
 1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 12478100 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
 12478041

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
 1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 12478040 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
 12477981

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 12477980 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 12477921

Query: 2003 actttattc 2011
 |||||||||
 Sbjct: 12477920 actttattc 12477912

Score = 682 bits (344), Expect = 0.0
 Identities = 347/348 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 1129816 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1129875

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 1129876 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
 1129935

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 1129936 atagtctttttgggtcttcctctgcctcgaattggttgtcttctctccatctgggtctact
 1129995

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 1129996 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1130055

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
 1942

|||||
 Sbjct: 1130056 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
 1130115

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatc 1990

|||||
 Sbjct: 1130116 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatc 1130163

Score = 658 bits (332), Expect = 0.0
 Identities = 344/348 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 14924224 aacgccttatctcactaggtggggtcggctacatggatcaacttccgccataatgttcta
 14924165

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 14924164 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
 14924105

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 14924104 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 14924045

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
 1882

|||||
 Sbjct: 14924044 ctctcactacagagtctaccagtcttctctctacatgccccaaaccacctaagttctattt
 14923985

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
 1942

|||||
 Sbjct: 14923984 tccaccatcttctctacaataggcgctacaccaaccctctctctaatagttcgtttcta
 14923925

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatc 1990

|||||
 Sbjct: 14923924 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatc 14923877

Score = 656 bits (331), Expect = 0.0
 Identities = 334/335 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 48866942 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 48867001

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
 1762

|||||
 Sbjct: 48867002 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataaacctctctt
 48867061

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 48867062 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 48867121

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 48867122 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
48867181

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 48867182 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
48867241

Query: 1943 attttatcctgtcgagtcttaccacacatccaccg 1977

|||||
Sbjct: 48867242 attttatcctgtcgagtcttaccacacatccaccg 48867276

Score = 636 bits (321), Expect = e-179
Identities = 327/329 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 43388486 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
43388427

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 43388426 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
43388367

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 43388366 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
43388307

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 43388306 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
43388247

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||

Sbjct: 43388246 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
43388187

Query: 1943 attttatcctgtcgagtcttaccacacat 1971
|||||
Sbjct: 43388186 attttatcctgtcgagtcttaccacacat 43388158

Score = 628 bits (317), Expect = e-177
Identities = 326/329 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 5059236 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
5059177

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 5059176 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
5059117

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822
|||||
Sbjct: 5059116 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
5059057

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 5059056 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5058997

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 5058996 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
5058937

Query: 1943 attttatcctgtcgagtcttaccacacat 1971
|||||
Sbjct: 5058936 attttatcctgtcgagtcttaccacacat 5058908

Score = 603 bits (304), Expect = e-169
Identities = 313/316 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 32931884 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
32931943

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 32931944 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
32932003

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 32932004 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
32932063

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctat
1882
|||||
Sbjct: 32932064 ctctcactacagagtctactgggtcttctctctacatgcccaaaccacctaagtcctat
32932123

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
|||||
Sbjct: 32932124 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
32932183

Query: 1943 attttatcctgtcgag 1958
|||||
Sbjct: 32932184 attttatcctgtcgag 32932199

Score = 351 bits (177), Expect = 1e-93
Identities = 192/197 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||

Sbjct: 8173000 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 8173059

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 8173060 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
 8173119

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 8173120 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctatt
 8173179

Query: 1823 ctctcactacagagtc 1839

|||||
 Sbjct: 8173180 ctctcactacagagtc 8173196

Score = 321 bits (162), Expect = 1e-84
 Identities = 165/166 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 28099864 aacgccttatcccactaggtggggctcggctacatgaatcaacttccgccataatgttcta
 28099805

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 28099804 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 28099745

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctct 1808

|||||
 Sbjct: 28099744 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctct 28099699

Score = 236 bits (119), Expect = 5e-59
 Identities = 131/135 (97%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 102180 aacgccttatccactaggtggggctcgactacatggatcaacttctgccataatgttcta
102239

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 102240 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
102299

Query: 1763 atagtctttttgggt 1777
|||||
Sbjct: 102300 atagtctttttgggt 102314

Score = 200 bits (101), Expect = 3e-48
Identities = 183/208 (87%), Gaps = 3/208 (1%)
Strand = Plus / Plus

Query: 4811 tttatcaatatcatagctttgtttagaaaaaagagatttaataattaatagctaaagaa
4870
||||
Sbjct: 13713409 tttaaccaatttcataagctttgtttagaaaat--gaaatttaataagtttaataagctaaagaa
13713466

Query: 4871 atccaaaagtttttcttttatttttattttgttcctattcaattctaattttgtcat-tt
4929
|
Sbjct: 13713467 acacaaaagcttttcttttattttctattctcttcctattcaattctaattttgtcttctt
13713526

Query: 4930 ttttcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgattat
4989
||
Sbjct: 13713527 ttctcactgtctctcatacttctctgtcttttcacctacttcttcagtttacttgattat
13713586

Query: 4990 tattttactttgatacattagccaataa 5017
|
Sbjct: 13713587 tgtttcactttaacacattagtcaataa 13713614

Score = 198 bits (100), Expect = 1e-47
Identities = 234/276 (84%), Gaps = 17/276 (6%)
Strand = Plus / Plus

Query: 4757 ataactgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTTat
4815

||||| ||||||| ||||||| || ||||||| ||||||| || ||||| || ||
Sbjct: 36903619 ataactattaatctttttattggtatcgtaagtaataattaatgagcaataactcttcac
36903678

Query: 4816 caatatcatagctttgtttagaaaaaagagatttaataattaatagctaaagaaatcca
4875

||||||| ||||||| ||||| ||||||| ||||||| ||||||| |||||
Sbjct: 36903679 caatatcataactttgtttagacaaaa-gagatttaatagttaatagctaaagaaaccca
36903737

Query: 4876 aaagtttttcttttatt-----tttattttgttcctattcaattctaattttgtca
4926

||||||| ||||||| ||||| ||||||| ||||||| ||||||| |||||
Sbjct: 36903738 aaagtttttcttttatttctatttctctttatttctcttcctattcaattctaattttgtct
36903797

Query: 4927 t-ttttttctactgtctctcgtacttctctgtcttc-----tcacctgttcttccagttaa
4980

| ||||| ||||| ||||||| ||||||| ||||| ||||||| ||||||| |||||
Sbjct: 36903798 tcttttctcactatctctcatacttctctatcttctcacttcacctgcttcttccagttaa
36903857

Query: 4981 cttgattattatTTTactTTtgatacattagccaata 5016

||||||| ||| ||||||| ||||||| |||||
Sbjct: 36903858 tttgattattgTTTcactTTgacacattagccaata 36903893

Score = 180 bits (91), Expect = 3e-42
Identities = 190/222 (85%), Gaps = 2/222 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||||| ||||| ||||||| ||||||| ||||| ||||| ||||||| |||||
Sbjct: 15347096 aaaattaattgtcataaaaatttattatttaaatttacatgaacattaaatatacattaa
15347037

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| ||||||| ||||| || ||||| ||||||| ||||| ||||| |||||
Sbjct: 15347036 aaatttagtgttatatataattaacattattttattttataaca--attgacctattagctc
15346979

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 15346978 agttggttagagcgtcatgctaataatgcgaaaatcacaagtttgactcctgcttggact
 15346919

Query: 5297 attaatTTTaaattaatttGTaaaatatattttgaaaaaa 5338
 |||||
 Sbjct: 15346918 attaatTTTaaattaattcGTaaaatatattttgaaaaaa 15346877

Score = 176 bits (89), Expect = 4e-41
 Identities = 191/225 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
 5176
 ||||
 Sbjct: 7967913 aaaactaattgtgacaaaatttattatgtaaattgacatgtgcattaaatatattaga
 7967972

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 7967973 aatttttagtggttatatatagtgacattaattattttataatataaattggctattatttc
 7968032

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 ||||
 Sbjct: 7968033 agttagttagaacatcgtgttaataacttggagttataggtttgaatcctacatggacc
 7968092

Query: 5297 attaatTTTaaattaatttGTaaaatatattttgaaaaaaaaat 5341
 |||||
 Sbjct: 7968093 attaatTTTaaattaatttGGTaaaatatatttttaaaaacaaaat 7968137

Score = 172 bits (87), Expect = 7e-40
 Identities = 120/131 (91%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
 5176
 |||||
 Sbjct: 41905068 aaaattaattgtcacaaaatttattatgtaaatttgcattgggcattaaatatattaga
 41905127

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 41905128 aatttttagtggttatataatgatattaattattttataacataattgacttattagttc
41905187

Query: 5237 agttgggttaga 5247

|||||
Sbjct: 41905188 agttgggttaga 41905198

Score = 169 bits (85), Expect = 1e-38
Identities = 88/89 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 49176711 aacgccttatcccactaggtgggggtcggctacatgaatcaacttccgccataatggttcta
49176770

Query: 1703 tcaagtaccatacttctatccaaaccatt 1731

|||||
Sbjct: 49176771 tcaagtaccatacttctatccaaaccatt 49176799

Score = 165 bits (83), Expect = 2e-37
Identities = 89/91 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 2430203 aacgccttatcccactaggtgggggtcggctacatggatcaacttctgccataatggttcta
2430144

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733

|||||
Sbjct: 2430143 tcaagtaccatacttctatccaaatcattaa 2430113

Score = 163 bits (82), Expect = 6e-37
Identities = 106/114 (92%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256

|||||
Sbjct: 6336509 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
6336568

Query: 1257 tatctgatatgtgggtcattggcccacatgatattaaatttattttttgaaggg 1310

|||||
Sbjct: 6336569 tatctgatatgtggaccattggttcacacgatattaaattacttttttaaaggg 6336622

Score = 163 bits (82), Expect = 6e-37
Identities = 269/329 (81%), Gaps = 3/329 (0%)
Strand = Plus / Minus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490

|||||
Sbjct: 25751327 atacaataatgaaaaacacacatgaagactacaaatcattaaataataaaaatagtaatca
25751268

Query: 7491 aataatt-tggggaggggggt--cttcaaaacttgattcaagggttcattgtatcatcgagg
7547

|||||
Sbjct: 25751267 aataaatatggaggggggggtttcttcaaaactcgattcaagggttcattacttcatcgaga
25751208

Query: 7548 tattcacccaaaccctccaaattcaaagagcttgacagaaactgggtggtggttgtgcatat
7607

|||||
Sbjct: 25751207 tattcatcccaaccatccaaattcaaagagttggtagaaattggtgatggatgtgcacat
25751148

Query: 7608 gtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaagagt
7667

||||
Sbjct: 25751147 gtttgtgtaggtgtgtctatagtggtaatatataactccaagcatgtgagcttggatatt
25751088

Query: 7668 ttcccaaataatagaaaacatagtaattatttcctcatcatcttgacgacatacatgccctg
7727

||
Sbjct: 25751087 ttttgaacatggaaaacatagtcattacatcctcatcatcgtgcaacatgcatgccgtg
25751028

Query: 7728 tactgaaaacaatcaccaacaaatgatac 7756

||||| ||||||||||||||| |||||
Sbjct: 25751027 tactggccacaatcaccaacaaaagatac 25750999

Score = 157 bits (79), Expect = 4e-35
Identities = 118/131 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||||||||| ||||||||||||||| |||| || |||||||||||||||
Sbjct: 7586562 aaaattaattggtataaaaatttattatctaaatttacatgtgcattaaatatacattaga
7586503

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||| ||||||| ||| | ||||||||||||||||||||||| || ||||||| ||
Sbjct: 7586502 aattttattggttatatatagcaacattaattattttataacataattggtctattagctc
7586443

Query: 5237 agttgggttaga 5247

|||||||||||
Sbjct: 7586442 agttgggttaga 7586432

Score = 157 bits (79), Expect = 4e-35
Identities = 187/223 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||||||||| ||||||||||||||| ||||||| |||| || |||||||||||||||
Sbjct: 7968866 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatacattaga
7968807

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||| ||||||| ||| | |||| ||||||||||||||||||| ||||| ||
Sbjct: 7968806 aattttaatggttatgtataacaacattatttattttataacataattagcctattaactc
7968747

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

| | ||||||||| || || ||||||| ||||||||| || ||||| || ||||| |
Sbjct: 7968746 aatttggttagagcggtgtgctaataatatgaaagtcacaaattcgatttttgcttgagcc
7968687

Query: 4817 aatatcatagctttgtagaaaaaagagatttaataattaatagctaaagaaatcaa
4876

|||||

Sbjct: 42015238 aataccatagctttgtttagaaaaa-gagatttaatagttaatagctaaagaaacttaa
 42015180

Query: 4877 aagtttttcttttatt-----tttattttgttcctattcaattctaattttgtcat
 4927

|||| ||||||||| ||||| || ||||| ||||||| ||||| |
 Sbjct: 42015179 aagcttttcttttatttctatttcttttattttctttctatttaattctaa--ttgtctt
 42015122

Query: 4928 -tttttctactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgat
 4986

|||| ||||||||| || ||||||||| || ||||||||| ||||| |
 Sbjct: 42015121 cttttctactgtctctcatatctctctgtcttctcacttgcttcttcagtttatttgat
 42015062

Query: 4987 tattattttactttgatacattagccaata 5016
 |||| ||| ||||||| |||||||||

Sbjct: 42015061 tattgtttcactttgacacattagccaata 42015032

Score = 155 bits (78), Expect = 2e-34
 Identities = 180/214 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

||||||||| ||||||| |||| || ||| | ||||||||| |
 Sbjct: 28649727 aaaattaattgttacaaaatttattatgttaaacttatatgtgtattaaatatacattaaa
 28649668

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||||||| || |||| || ||||||||| ||||||||| | ||||||| |
 Sbjct: 28649667 aatttttagtggttctatatagcgacattaattattttttaacataattgggtctattagttt
 28649608

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296

||||||||| ||||| ||||| ||||||||| ||||| | |||| ||| |
 Sbjct: 28649607 agttgggttagaacattataactaataacttgaaagtcacaagttctagacctacatgggcc
 28649548

Query: 5297 attaatTTTaaattatttGTaaaatatattttt 5330
 ||||||||| || | |||| |||||||

Sbjct: 28649547 attaatTTTaaattattttagcaaaacatatattttt 28649514

Score = 155 bits (78), Expect = 2e-34
Identities = 138/158 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||||| | |||||||||||| |||||| | |||||| | |||||| |||||
Sbjct: 46845874 aaaattaattgtcataaaatttattatttaaatttacatgcacattaaatatacattaga
46845815

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| |||||||| | || | |||||||||||||||| |||| | ||||||||
Sbjct: 46845814 aattttcgtggttatatatagtaacattaattattttataacatgattgacctattagttc
46845755

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaa 5274
 |||| | || | || | | |||| | ||||||||
Sbjct: 46845754 agttagtcagaacattgtactaataaacttgaaagtcaa 46845717

Score = 153 bits (77), Expect = 6e-34
Identities = 221/265 (83%), Gaps = 13/265 (4%)
Strand = Plus / Plus

Query: 4764 ttaatctttttattgataccgtaa-taataattaataagtaataattttttatcaatatc
4822
 |||||||||||||| |||||| | || | |||||| | | | | | | | |||||
Sbjct: 13796770 ttaatctttttattggtagcgtaaataacaattaatgagcaacaactcttcaccaatatc
13796829

Query: 4823 atagctttggttagaaaaaagagatttaataattaatagctaaagaaatccaaaagttt
4882
 || | |||||||||||||| |||||||||| |||||||||| |||||| |
Sbjct: 13796830 ataactttggttagaaaaa-agagatttaatagtttaatagctaaagaagtccaaaagctc
13796888

Query: 4883 ttcttttatt-----tttattttgttcctattcaattctaattttgtcatttttt-
4932
 |||||||| | |||| | | || |||| |||||||| | | |||||
Sbjct: 13796889 ttcttttatttctatttctctttattatctttctattgaattctaattctgtttttttttc
13796948

Query: 4933 tcac-tgtctctcgtaacttctctgtcttctcacctgtttcttcagtttacttgattatta
4991
 |||| | |||| | |||||||||| |||| | | |||||| |||||| ||

Query: 6738 atacgagaggagacatgacaaccttttagaatttcttttctttttgggttggggcaaatt
6797 |||||

Sbjct: 16932778 atacgagaggagacaggatgacatttggaaatttcttttcttgtccgggtcagggcagatt
16932837

Query: 6798 cttggccttgtagacatgggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857
 |||||
Sbjct: 16932838 attggccttgtaggcacgatggccaatatgctttgtagcacaattgaccaacaatcctatg
16932897

Query: 6858 tacatgttatagataacttttccagcgtatacacaagatgtatgtagttcctataactcatgg
6917
 || | ||| ||| | ||| || |||||
Sbjct: 16932898 tatacttttagagacattttgcaacgtatacacatgatgtatgtagttcctgtactcatgg
16932957

Query: 6918 tgagcatgcttataaacaacaacatgagaacaaaacatgtgcattttttgaaatttgtca
6977
 ||| || ||||| || |||||
Sbjct: 16932958 tgaacacgcttacaagcaacaacatgagaacaaggcatatgcaatttctggaatttttca
16933017

Query: 6978 cagtcacactacctttcatctagcttgaccatgaaatctcact-agttgaatctctct
7036
 |||||
Sbjct: 16933018 cagtcacaccacctttcatccaacctgaccatgaaatct-tcagtgaggctaaacctctct
16933076

Query: 7037 ctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaaca
7096
 ||| || | |||||
Sbjct: 16933077 ctcgagcttattgtctcctagaccaagaactgtgtgtcatgtcgatcaaactcaagaaa
16933136

Query: 7097 atgtgagagtttgccttttctgtatgtctttcatagccttgtttaataacttttgtataa
7156
 || |||| ||||| |||| ||||| ||||| | ||| ||||| ||||| |||||
Sbjct: 16933137 atatgagtgtttgtctttctctgtgtgtcttcactgacctcgtttagtacttgcatataa
16933196

Query: 7157 acttcaccaaataatgaatacactcttgcgacttctctcccccttggttgaacaatgcatta
7216
 |||| |||| ||| || || | || || || | |||| |||| |||||
Sbjct: 16933197 acttgaccagatgcaaacattgatgtga-ttttttccctcttttggttgaacaatgcatta
16933255

Query: 7217 cacctagtataggttgattttaccaacacac--attgccagattttgtgttttcttgagt
7274
 ||||| ||| |||||
Sbjct: 16933256 caccttagatatgttgattttactagcacacttattggaagatttcttgatttctcgagt
16933315

Query: 7275 accaaattaat 7285

Sbjct: 33557798 ttgattcattagctcagttgggttagagcattgtgctaataat-tgaaagtc-----tca
33557746

Query: 5282 attcttacttggatcattaatttttaaatatttgtaaaatatatttttgaaaaaaaaat
 5341
 ||| ||||| |||||||||||||||||||| | | ||||||||| |||||||||
 Sbjct: 33557745 attattacttaaatcattaatttttaaatatttcgtcacatatatttttcaaaaaaaat
 33557686

Query: 5342 tataaaaaaa 5351
 || |||||
 Sbjct: 33557685 taaaaaaaaa 33557676

Score = 147 bits (74), Expect = 4e-32
 Identities = 176/210 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||||| | |||||||||||||| ||||||||| || ||||||||| |||
 Sbjct: 42385012 aaaattaattctcacaaaatttattatgtaaatttacatatgcattaaatatacataaga
 42385071

Query: 5177 aattttagtggttatattttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||||| |||||||| | || || ||||||||||||||||||||||||| |||||||
 Sbjct: 42385072 aattttaatggttatatatattgacattaattattttataacataattgatctattagttt
 42385131

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 ||||| ||| || || | ||||||| ||||| ||| | ||| | ||||||| | ||
 Sbjct: 42385132 agttgattaaagtgttttattaataaacttgaaattcatatgtttgaatcttacataagtc
 42385191

Query: 5297 attaatttttaaatatttgtaaaatatat 5326
 ||||||||||||||||| |||||||||
 Sbjct: 42385192 attaatttttaaatatttcgtaaaatatat 42385221

Score = 145 bits (73), Expect = 1e-31
 Identities = 115/129 (89%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||||| |||||||||||||||||||||| |||| | | ||||||||| |||

Sbjct: 7586657 aaaattaattattacaaaatttattatctaaatttacatgtatattaaatatacattaaa
7586716

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236

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Sbjct: 7586717 aatTTtattgTtatatatagtaacattaattatTTTataacataattgacctattagctt
7586776

Query: 5237 agttggTta 5245
|||||
Sbjct: 7586777 agttggTta 7586785

Score = 145 bits (73), Expect = 1e-31
Identities = 184/221 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

||||| ||| ||||||| ||||||| ||||||| ||| || ||| |||||||
Sbjct: 31565615 aaaattaattatcacaaaatttattatgttaaatttacatgtgcattaaatttacattaga
31565556

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236

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Sbjct: 31565555 aatTTtagtgTtatatataacgacattaattatTTTataacataattggcctattagctc
31565496

Query: 5237 agttggTtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggtac
5296

| ||| ||||||| | || ||||||| ||||||| | ||| ||| ||| |
Sbjct: 31565495 aattgattagagcttcgtgctaataactcaaaagtcacaggtttgattcctacttaggca
31565436

Query: 5297 attaatttttaaattaatttgtaaaatatatTTTtgaaaaaa 5337

||||| ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 31565435 attaatttttaaattaatttcataaaatatatTTTtgaaaaaa 31565395

Score = 145 bits (73), Expect = 1e-31
Identities = 137/157 (87%), Gaps = 1/157 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 46846075 aaaattaattatcacaaaatttattatctaaatttgcacataaatatacattaga
 46846134

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 || |||||
 Sbjct: 46846135 aaatttagtggttatatataacaacattaattattttat-atataattgacctattagttc
 46846193

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273
 |||||
 Sbjct: 46846194 agttggtagagcgtcgtgttaataacgtaaaagtca 46846230

Score = 137 bits (69), Expect = 4e-29
 Identities = 185/223 (82%), Gaps = 3/223 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 4954139 aaaattaattgtcacaaaatctatcatctaaatttaccgcttaaatataca---ga
 4954195

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 4954196 aatttttagtggttacatatagcgactttaattattttataatataattgacttattaactc
 4954255

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcctacttggtac
 5296
 |||||
 Sbjct: 4954256 agttggtagagaaatcgcatataacgtgaaagtcaccgcttcaattcctacatgagcc
 4954315

Query: 5297 attaatTTTTAAATTAATTGTAAATATATTTTTGAAAAAAA 5339
 |||||
 Sbjct: 4954316 attaatTTTTAAATTAATTCGTAACATATTTTTGAAAAAAA 4954358

Score = 135 bits (68), Expect = 1e-28
 Identities = 134/156 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 45591081 aaaattaattgtcacaaaatttgttatttaaatttacatgtgcattaaatatacattaaa
 45591140

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 45591141 aatttttagtattatataataagattatttattttataacataattgacttattagctc
 45591200

Query: 5237 agttggtagagcattatgttaataatgtgaaagtc 5272

|||||
 Sbjct: 45591201 agttgattagagtgttctgttaataatttgaaagtc 45591236

Score = 131 bits (66), Expect = 2e-27
 Identities = 114/130 (87%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
 5175

|||||
 Sbjct: 27552818 aaaaattaattgtcacataatttattatgtaaatttacatgtgcattaaatatacattag
 27552759

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235

|||||
 Sbjct: 27552758 aaatttttagtggttctatatagcgatattaattattttaaaacataattagtctattagct
 27552699

Query: 5236 cagttgggta 5245

|||||
 Sbjct: 27552698 cagttgggta 27552689

Score = 131 bits (66), Expect = 2e-27
 Identities = 162/194 (83%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
 5175

|||||

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
 |||||
Sbjct: 16003196 aaaattaattgtcacaaaatttattatgtaaatttacgtgtgcattaaatatacattaga
16003137

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 16003136 aatttttagtggttatatatagcaacattaattattttctaacataattagcctataagctc
16003077

Query: 5237 agttggtagagcattatgttaataatgtgaaa 5269
 | |||||
Sbjct: 16003076 aattggtagagcattgtgctaataacgtgaaa 16003044

Score = 129 bits (65), Expect = 9e-27
Identities = 134/156 (85%), Gaps = 2/156 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
 |||||
Sbjct: 16003428 aaaattaattggtgcaagatttattatctaaatttacatgtgcattaaatatacattaga
16003487

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 16003488 aattcctaattgttata--tagcgacattaattattttataacataatcgatctattagctt
16003545

Query: 5237 agttggtagagcattatgttaataatgtgaaagtc 5272
 |||||
Sbjct: 16003546 agttggtagaacgttgtgctaataacgtgaaagtc 16003581

Score = 127 bits (64), Expect = 3e-26
Identities = 133/156 (85%)
Strand = Plus / Minus

Query: 5118 aaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaa
5177
 |||||
Sbjct: 48597777 aaattaattgtcacaaaatttattccttaatttacatgcgcattaaatatattagaa
48597718

Query: 5178 attttagtggttatatttagtgaaattaattatattttataacataattgatgtattagttca
 5237

||||| | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 48597717 attttagtggttatataataacattatattttataatgtaattgactcattagttca
 48597658

Query: 5238 gttggtagagcattatgttaataatgtgaaagtca 5273

||||| | | | | | | | | | | | | | | | | |
 Sbjct: 48597657 attggtagaacgttgtgttaataacttgaaagtca 48597622

Score = 125 bits (63), Expect = 1e-25
 Identities = 115/131 (87%), Gaps = 1/131 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

||||| | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 18048900 aaaatttattgtcacaaaatttattatttaaatttacatgtgcattaaatatacattaga
 18048841

Query: 5177 aatttttagtggttatatttagtgaaattaattatattttataacataattgatgtattagttc
 5236

||||| | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 18048840 aatttttagtggttatatatagtaacattattta-tttataatataaattgggtctattagctc
 18048782

Query: 5237 agttgggttaga 5247

||||| | | | | | | | | | | | | | | | | |
 Sbjct: 18048781 agttgggttaga 18048771

Score = 125 bits (63), Expect = 1e-25
 Identities = 96/107 (89%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

||||| | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 36081735 aaaattaattatcacaaaatttattatataaaatttacatgtacattaagtatacattaga
 36081676

Query: 5177 aatttttagtggttatatttagtgaaattaattatattttataacataatt 5223

| ||||| | | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 36081675 agtttttagtggttatataatgacattaattatattttataacataatt 36081629


```
Query: 1708      taccata 1714
        |||||
Sbjct: 438248    taccata 438254
```

Query: 5014 ataattttaataaattatTTTTatgaataaataaaaagggttttattcttaaatttgcttgag
5073
|||||

Sbjct: 37951978 ataattttaataaaactatTTTTatgagtaaataaaaaggcctcattcttaaatttgcttttag
37952037

Query: 5074 ccctctcaagtccttgagccgcccc 5098
|||||
Sbjct: 37952038 gcctctcaagtccttgagccgcccc 37952062

Score = 113 bits (57), Expect = 5e-22
Identities = 115/133 (86%), Gaps = 6/133 (4%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 39682954 aaaattaattggttacaaaatttattatttaaatttacatgtgcattaaatatacattaga
39683013

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 39683014 aatttttagtg-tata----taacattatttattttataatataattgggtctattagttg
39683067

Query: 5237 agttgggttagagc 5249
|||||
Sbjct: 39683068 agttgggttagagc 39683080

Score = 113 bits (57), Expect = 5e-22
Identities = 108/125 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 42393966 aaaattaattgtcacaaaatttattatctaaatttacatgcgtattaaatatacattaga
42394025

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 42394026 aatttttaattggttatatataacaacattaattattttgcaacataattaacatattagctc
42394085

Query: 5237 agttg 5241

|||||
 Sbjct: 42394086 agttg 42394090

Score = 113 bits (57), Expect = 5e-22
 Identities = 108/125 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaaatttattatctaaatttgcacataaatatacattaga
 5176

||||||| | ||||| ||||| ||||| || ||||| |||||
 Sbjct: 46747836 aaaattaattatcacaaaaatttattatataaaatttacatgtgcattaaatatattaga
 46747895

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||||| ||||| || || ||||| ||||| ||||| || ||||| |||||
 Sbjct: 46747896 aatttttagtggttatataacaacattaattttttataacataattaacctattagttc
 46747955

Query: 5237 agttg 5241

|||||
 Sbjct: 46747956 agttg 46747960

Score = 113 bits (57), Expect = 5e-22
 Identities = 145/173 (83%), Gaps = 1/173 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaa-tttattatctaaatttgcacataaatatacattag
 5175

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 48694470 aaaattaattgtcacaaaaatttattatataaaatttacatgcgcattaaatatattag
 48694529

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235

||||||| ||||| || || ||||| ||||| ||||| || ||||| |||||
 Sbjct: 48694530 aaatttttagtggttatgtataacaacattattttttataatgtcattgactcattagtt
 48694589

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattctta 5288

||||||| ||| || ||||| ||||| ||||| ||||| |||||
 Sbjct: 48694590 tagttgggttaaagcggttggttaataacttgaaagtcacaagttcaagttctta
 48694642

Score = 113 bits (57), Expect = 5e-22
Identities = 96/109 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 49039508 aaaattaattgtcataaaaatttattatctaaatttgcatgtgcattaaatatatattaaa
49039567

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||||
Sbjct: 49039568 aatttttagtggttacatataataatattaattattttataatataattga 49039616

Score = 111 bits (56), Expect = 2e-21
Identities = 175/212 (82%), Gaps = 2/212 (0%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtta
5189
 |||||
Sbjct: 3351303 acaaaatttaatatgtaaatttacatgta-attaaatataaattagaaatttttagtggtta
3351361

Query: 5190 tatttagtgaaattaattattttataacataattgatgtattagttcagttgggttagagc
5249
 ||| ||
Sbjct: 3351362 tatataacaacattattta-tttataacataatgtgtgtattagttcagttgggttgagt
3351420

Query: 5250 attatggttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaat
5309
 ||| |
Sbjct: 3351421 attttattaataatataggaggtacaagtttgatccctacttggaccaataatttttaaat
3351480

Query: 5310 taatttgtaaaatatatttttgaaaaaaaaaat 5341
 ||| |
Sbjct: 3351481 taaatcgtaaattatatatttttgaaaaaaaaaat 3351512

Score = 111 bits (56), Expect = 2e-21
Identities = 137/164 (83%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175

||||| | ||||||| ||||||| ||| | ||||||| |||||
Sbjct: 9728183 aaaaattaattatcacaaaatttattatgtaaatttacatgtgtattaaatatattag
9728124

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

||| |||| ||||||| ||| | ||||||| ||||||| ||||||| | |||||||
Sbjct: 9728123 aaagttaaattgttatatatagcgacattaattattttataataattgacctgttagtt
9728064

Query: 5236 cagttggtagagcattatgttaataatgtgaaagtcaaaagtt 5279

||||| || || || ||||| ||||||| |||||
Sbjct: 9728063 tagttggtaaagtatcgtgctaataacctgaaagtcacaagtt 9728020

Score = 111 bits (56), Expect = 2e-21
Identities = 113/132 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||| ||||| ||||||| ||||||| ||||| || ||||||| |||||
Sbjct: 14641969 aaaattaattgtcataaaaatttattatttaaatttacatgcgcattaaatatattaga
14642028

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||| ||||||| ||| | |||| ||||||| ||||||| | |||||||
Sbjct: 14642029 aattttggtgttatatatagcaacattatttattttataataattagtctattagttc
14642088

Query: 5237 agttggtagag 5248

| ||| |||||
Sbjct: 14642089 aattgattagag 14642100

Score = 111 bits (56), Expect = 2e-21
Identities = 113/132 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||| ||||||| ||||||| ||||| ||| || ||||||| |||||

Sbjct: 25783485 |||
25783426

```
Query: 5177      aatttttagtgttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236            || ||||||| | || ||||| ||||||| ||||||| ||||| ||
Sbjct: 5115314 aaatttagtgttatgtataacaacattatttattttataaatataattgctcctattatttt
5115373
```

Query: 5237 agttgggtag 5246
|||||||
Sbjct: 5115374 agttgggtag 5115383

Score = 107 bits (54), Expect = 3e-20
Identities = 116/136 (85%), Gaps = 3/136 (2%)
Strand = Plus / Minus

Query: 6882 gtatacacaagatgtatgtagttcctataactcatgggagcatgcttataaaca---aca
6938
|||||||
Sbjct: 19395262 gtatacacaagatgtatgtagtttttgtactcattatgagcatgcttacaagcagcaaca
19395203

Query: 6939 acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
6998
||| |||||
Sbjct: 19395202 acacgagaacaatgcatgtgaaatttctgaaatttgtcacagccacaccacctttcatcc
19395143

Query: 6999 agcttgaccatgaaat 7014
||| |||||
Sbjct: 19395142 agcctgaccatgaaat 19395127

Score = 107 bits (54), Expect = 3e-20
Identities = 132/158 (83%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacataaatatacatag
5175
|||||||
Sbjct: 28022090 aaaaattaattatcatcaaatttattatgtaaaattatatgtgcattaaatataacttta
28022149

Query: 5176 aaat tttagtggttatat tttagtgaaattaattat tt ttataacataattgatgtattagtt
5235
|||||||
Sbjct: 28022150 aaat tttagtggttatatatagcgacattagttat tt ttataacataattgat tt attagtt
28022209

Query: 5236 cagttgggtagagcattatgttaataatgtgaaagtca 5273
|| ||| ||| ||| || |||||
Sbjct: 28022210 caattgattatagcgttggtgtaataacgcgaaagtca 28022247

Query: 7459 ctacaaatcattaaataataacaattacaatcaaataatttggggaggggg---tcttcaa
7515

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
 |||||
Sbjct: 48597924 aatTTtagtgTtatatataataatattatTTTataatgtaattaactcatTAATTC
48597865

Query: 5237 agttggTtagagcattatgttaataatgtgaaagtca 5273
 | |||
Sbjct: 48597864 aattgattagaacgttgTgctaataatttgaaagtca 48597828

Score = 103 bits (52), Expect = 5e-19
Identities = 135/163 (82%), Gaps = 6/163 (3%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 |||||
Sbjct: 80321 aaaattaattgtcacaaaatttattatttaaatttacat-----taaataatatattaga
80268

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
 |||||
Sbjct: 80267 aatTTtagtgTtatatataagtaataattatTTTataatataaatttgcttattagttt
80208

Query: 5237 agttggTtagagcattatgttaataatgtgaaagtcaaaagtt 5279
 |||||
Sbjct: 80207 agttgcttagagcgtcgtgctactaatctgaaagtcacaagtt 80165

Score = 103 bits (52), Expect = 5e-19
Identities = 67/72 (93%)
Strand = Plus / Minus

Query: 5162 taaataacattagaaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataa
5221
 |||||
Sbjct: 6177110 taaataacattagaaatTTtagtgTtatatataacgacattaattatTTTataacataa
6177051

Query: 5222 ttgatgtattag 5233
 |||||
Sbjct: 6177050 ttgatctattag 6177039

Query: 5014 ataattttaataaattatTTTTatgaataaaataaaaagggtttttattcttaaatttgcttgag
5073
|||||

Sbjct: 13797216 ataattttaataaaactatTTTTatgagtaaataaaaaggtctcattcttaaatttacttttag
13797275

Query: 5074 ccctctcaagtccttgagccgccc 5097
|||||
Sbjct: 13797276 gcctctcaagttcttgagccgccc 13797299

Score = 103 bits (52), Expect = 5e-19
Identities = 118/138 (85%), Gaps = 4/138 (2%)
Strand = Plus / Plus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacatta
5174
|||||
Sbjct: 14987936 aaaaaattaattgtcacaaaatttattatgtaaatttacatgtgtattaaatataaattt
14987995

Query: 5175 gaaatTTtagtggttatatttagtgaaattaattatTTTataacataattgatgtattagt
5234
|||||
Sbjct: 14987996 aaaatttaa-tggtatatata---acattaattatTTTataatataattgatctatttagc
14988051

Query: 5235 tcagttggttagagcatt 5252
|||||
Sbjct: 14988052 tcagttggttagagcatt 14988069

Score = 103 bits (52), Expect = 5e-19
Identities = 112/132 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 47906895 aaaattaattatcacaaaatttattatttaaacttacatgcatattaaatataatataaa
47906954

Query: 5177 aattTTtagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
5236
|||||
Sbjct: 47906955 aatttaagtattatatataacgacattaattatTTTataatataattgacctattagttt
47907014

Query: 5237 agttggttagag 5248

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 42204038 aaaattaattatcataaaatttattatctaaatttacaagtgcattaaatatatattaaa
42204097

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223

|||||
Sbjct: 42204098 aatttttagtggttatatataatgatattaattattttataaatataatt 42204144

Score = 99.6 bits (50), Expect = 8e-18
Identities = 107/126 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 45891585 aaaattaattggttacaacatttattatgtaaacttatatatatattaaatatatacattaaa
45891526

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||| |||||
Sbjct: 45891525 aatcttagtattatatataattacattaattattttataacataattgacttattagttc
45891466

Query: 5237 agttgg 5242

| ||||
Sbjct: 45891465 aattgg 45891460

Score = 97.6 bits (49), Expect = 3e-17
Identities = 76/85 (89%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaaagggttttattcttaaatttgcttgag
5073

|||||
Sbjct: 8378331 ataattttaataaactattttatgagtaaataaaagacctattcttaaatttactttag
8378272

Query: 5074 ccctctcaagtccttgagccgcccc 5098

|||||
Sbjct: 8378271 gcctctcaagtccttgagccgcccc 8378247

Query: 6936 acaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttca
6995
|||||

Sbjct: 25783651 acaacatgagaacaaggcatgtgcaattttctgtaattttccacagtcacaccacctttca
25783592

Query: 6996 tc 6997
||
Sbjct: 25783591 tc 25783590

Score = 97.6 bits (49), Expect = 3e-17
Identities = 104/120 (86%), Gaps = 3/120 (2%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataattttttatc
4816
|||||
Sbjct: 37951803 taactgttaatctttttattggtaccgtaagtaacaattaatgagcaacaactcttcacc
37951862

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876
|||||
Sbjct: 37951863 aatatcatagcttcgtttagaaaaaa--agatttaataggtaatagctaaagaaacccaa
37951920

Score = 95.7 bits (48), Expect = 1e-16
Identities = 112/132 (84%), Gaps = 1/132 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
|||||
Sbjct: 5573904 aaaattaattgtcacaaaatttattatttaaatttacatgtgcattagatatacattaga
5573963

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 5573964 aatttttagtggttatgtataacaatattattta-tttataacataattggcctattagctt
5574022

Query: 5237 agttgggtagag 5248
|||||
Sbjct: 5574023 agttgggtagag 5574034

Score = 95.7 bits (48), Expect = 1e-16
Identities = 93/108 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 6514436 aaaattaattgtcataaaaatttattatttaaatttatatgcgcattaaatatagattaaa
6514377

Query: 5177 aattttagtggttatatttagtgaaattaattatttataacataattg 5224
 ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 6514376 aattttagtggttatatataacaatattatttattttataacataattg 6514329

Score = 95.7 bits (48), Expect = 1e-16
Identities = 84/96 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 42427421 aaaattaattgttacaaaatttattatgtaaacttatatgtgtattaaatatatacattaga
42427480

Query: 5177 aattttagtggttatatttagtgaaattaattatttt 5212
 ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 42427481 aattttagtattatatataacgaaattaattatttt 42427516

Score = 95.7 bits (48), Expect = 1e-16
Identities = 171/212 (80%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 46747678 aaaattaattatcacaaaatttattatgtaaatttacttgtgtattaaatatatacattaaa
46747619

Query: 5177 aattttagtggttatatttagtgaaattaattatttataacataattgatgtattagttc
5236
 | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 46747618 attttttagtggttatatatagcgatattaattattttaataatataattagtctattagctt
46747559

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 46747558 gggtggttagagttttgtactaataaatcaaaagtcacatatttgattcctacttgggtc
 46747499

Query: 5297 attaatTTTaaattaatttGTaaaatatattt 5328
 |||||
 Sbjct: 46747498 attaatTTTaaattaattcataaaaacatatattt 46747467

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 90/104 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 47662936 aaaattaattgtcacaaaatttattatttaaatttatatgcacattaaatatatataaa
 47662877

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacata 5220
 |||||
 Sbjct: 47662876 aatttttagtattatgtataataatattattttattttataacata 47662833

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 123/147 (83%), Gaps = 1/147 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaa-tttattatctaaatttgcattgcacaataaatatacattag
 5175
 |||||
 Sbjct: 8425487 aaaattaattgtcacaaaaatttattatataaaacttacttgtacattaaatacatattag
 8425546

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235
 |||||
 Sbjct: 8425547 aaatttttagtattatataatgaatattattttataacataattgggttcattagct
 8425606

Query: 5236 cagttggttagagcattatgttaataa 5262
 |||||
 Sbjct: 8425607 catttgattagagtgtcatgttaataa 8425633

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 119/142 (83%), Gaps = 2/142 (1%)
 Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtata
 5191
 Sbjct: 12367584 aaaatttattatgtaaatttacatgtgcattaaatatacatttaaaatttttagtggtaca
 12367525

Query: 5192 ttttagtgaaattaattatttttataacataaattgatgtattagttcagttggtagagcat
 5251
 Sbjct: 12367524 tataatgacattaattattt--taatataaattgggtctattagttcaattgattaaaatgt
 12367467

Query: 5252 tatgttaataatgtgaaagtca 5273
 Sbjct: 12367466 tatgttaataatatgaaagtca 12367445

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 94/110 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgtttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 Sbjct: 14987508 aaaattaattatcataaaatttattatgtaaatttagatgtgcattaaatatatatttaa
 14987449

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataaattgat 5226
 Sbjct: 14987448 aatttttagtggttatatatataattacattaattatttttataacataaattgat 14987399

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 106/126 (84%)
 Strand = Plus / Minus

Query: 5211 ttataacataaattgatgtattagttcagttgggttagagcattatgttaataatgtgaaag
 5270
 Sbjct: 14987448 ttataacataaattgatgtattagttcagttgggttagagcattatgttaataatgtgaaag
 14987399

Query: 5177 aat t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g 5233
 || |||| |||| |||| |||| || | |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| ||||
 Sbjct: 5573445 a a g t t t a c t g t t a t a t a t a a c a a t a t t a t t t a t t t t a t a a c a t a a t t g a t c t a t t a g
 5573389

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 51/53 (96%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataa 1695
 |||| |||||||||||||||||||||| ||||||||||||||||||||||
 Sbjct: 6480832 aacgtcttatcccactaggtggggctcgactacatggatcaacttccgccataa 6480780

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 111/133 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||||||| |||||||||||||| |||||| |||| || |||||||||| ||
 Sbjct: 7432371 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatacattaaa
 7432430

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||| | |||| | | | |||| |||||||||| |||||| | |||| |
 Sbjct: 7432431 aattttaatattatgtataacaacattatttattttataatgtaattgggttcattagatc
 7432490

Query: 5237 agttgggtagagc 5249
 | |||||||||
 Sbjct: 7432491 aattgggtagagc 7432503

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 84/97 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||||||| | | |||||||||||||| |||||| ||| || |||||||||| ||
 Sbjct: 9210415 aaaattaattatcataaaatttattatgtaaatttatatgtgcattaaatatacattaga
 9210474

Query: 5177 aatttttagtggttatatttagtgaaattaattatttta 5213
 |||||||||||||| || || |||||||||| ||
 Sbjct: 9210475 aatttttagtggttatataacgacattaattatttta 9210511

Score = 89.7 bits (45), Expect = 8e-15
Identities = 72/81 (88%)
Strand = Plus / Plus

Query: 6934 caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
6993
|||||
Sbjct: 9285916 caacaacatgagaacaaggcatgtgcaacttctgaaatttgtcacagtcacaccaccttt
9285975

Query: 6994 catctagcttgaccatgaaat 7014
||||
Sbjct: 9285976 catccaacttgaccttgaaat 9285996

Score = 89.7 bits (45), Expect = 8e-15
Identities = 75/85 (88%)
Strand = Plus / Plus

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaattttaaaatacaaaacaatatggcataa
6639
|||||
Sbjct: 11976185 aaaatattttaaatttgaaataatacaacaaaaattttacaaatacaaaacaatatggcataa
11976244

Query: 6640 aattaatggttggtggcctgagccta 6664
|||
Sbjct: 11976245 attcaacggttggtggttgagccta 11976269

Score = 89.7 bits (45), Expect = 8e-15
Identities = 79/89 (88%), Gaps = 1/89 (1%)
Strand = Plus / Plus

Query: 6517 caagttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaacaatag
6576
|||||
Sbjct: 16932546 caagttgagttgaactaaaatacttaaatataaaaaatattt-taaaattattaataatag
16932604

Query: 6577 aacaaaatattttaaatttgaaataataca 6605
|||||
Sbjct: 16932605 aacaaaatattttaaatttgaaataataca 16932633

```
Query: 5199      aaattaattattttataacataattgatgtattagttcagttggttaga 5247
                | |||| | |||| |||| | |||| | |||| | |||| |
Sbjct: 33558316 acattattttattttataatgtaattgactcattagtttaagttggttaga 33558364
```

```
Query: 5014      ataattttaataaattattttatgaataaataaaagggtttttattcttaaatttgctt
5070            |||
Sbjct: 42014613 ataattttaataaaactattttatgaataaataaaaggcttcattcttaaatttgctt
42014557
```

Query: 5117 aaaattaattgtttacaaaaatTTtattatctaaatTTTgcattgcacaataaatatacataggaga
5176

Sbjct: 7766608 aaaattaattatcacaaaatTTtattatttaaatttacatacgcattaaatatgcattaga
7766549

```
Query: 5177      aatttttagtgttatatttagtgaaattaattatttttataacataattg 5224
                |||| |||| ||| | ||| |||| |||| |||| |||| ||||
Sbjct: 7766548  aattgtagtgatatgtataqtaacattattttatttttataacctaattg 7766501
```

Score = 87.7 bits (44), Expect = 3e-14
Identities = 80/92 (86%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatTTGaaataatacaacaaaaatTTTaaaatacaaacatattggcataa
 6639
 |||||
 Sbjct: 36043717 aaaatattttaaatTTGaaataatacaacaaaaatTTTaaaatacaaacatattgggtgtac
 36043658

Query: 6640 aattaatgttgttggcctgagcctacacaatg 6671
 |||||
 Sbjct: 36043657 attcaacgttgttggcctggagcctacacaatg 36043626

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 171/212 (80%), Gaps = 1/212 (0%)
 Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataaataacattagaaatttttagtggtta
 5189
 |||||
 Sbjct: 38682094 acaaaatttattatgaaaatttacatgtacattaaataaaatttttagtggtta
 38682153

Query: 5190 tatttagtgaaattaattattttataacataattgatgtattagttcagttgggttagagc
 5249
 |||||
 Sbjct: 38682154 tatataacaacactatttattt-ataatataatgtgtctattagctcagttgggttagagt
 38682212

Query: 5250 attatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaa
 5309
 |||||
 Sbjct: 38682213 gttctattaataatgcgggaggcacaaatttgattcttgcttggactattaatttttaa
 38682272

Query: 5310 taatttgtaaaatatatttttgaaaaaaaat 5341
 |||||
 Sbjct: 38682273 taaatcgtaaattatatatttttgaaaaaaaat 38682304

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 67/75 (89%)
 Strand = Plus / Minus

Query: 6592 ttTgaaataatacaacaaaaatTTTaaaatacaaacatattggcataaaattaatgttgt
 6651
 |||||
 Sbjct: 19395574 ttTgaattaatacaacaaaaatTTTaaaatacaaacatattgacatacattcaatgttgt
 19395515

Query: 6652 tggcctgagcctaca 6666
 |||| |
Sbjct: 19395514 tggcctgagcctaca 19395500

Score = 85.7 bits (43), Expect = 1e-13
Identities = 125/151 (82%), Gaps = 1/151 (0%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaaat ttagtggtatatttagtgaaattaatta-ttttataacata
5220
 |||| |
Sbjct: 28649816 taaatatacattagaaaat ttagtggtatatacatagcgacattaattat ttttttaacata
28649875

Query: 5221 attgatgtattagttcagttggtagagcattatggttaataatgtgaaagtc aaaagttc
5280
 |||| |
Sbjct: 28649876 attgacttattaactcagttggtagagcggttgctgtaataactaaaagtc ataggtt
28649935

Query: 5281 aattccttacttggaatcattaatttttaaatta 5311
 | |||| |
Sbjct: 28649936 gagacttacatggaccattaatttttaaatta 28649966

Score = 85.7 bits (43), Expect = 1e-13
Identities = 171/213 (80%), Gaps = 3/213 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||| |
Sbjct: 41647092 aaaattaattgttacaaaatttattatataaaaattatatgtgtattaaatataaattata
41647151

Query: 5177 aatttttagtggtatatttagtgaaattaattat ttttataacataattgatgtattagttc
5236
 |||| |
Sbjct: 41647152 aattgtagtattatatataacagcggttaattat ttttttaacgcaattgatctattagttc
41647211

Query: 5237 agttggtagagcattatggttaataatgtgaaagtc aaaagttcaattccttacttggaatc
5296
 |||| |

Sbjct: 41647212 agttgattaaagtgttggtgctaatt---gtgaaagtcccagattcgatacttatatggatc
 41647268

Query: 5297 attaatTTTtaaattatttGTaaaatatatttt 5329
 ||||| ||||| |||||
 Sbjct: 41647269 attaatTTTtaaattatttGTaaaatatattttt 41647301

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 82/95 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||||| ||||| |||||
 Sbjct: 42082427 aaaattaattgttacaaaatttattatgtaaatttatatgtgtattaaatatataataa
 42082368

Query: 5177 aatttttagtggttatatttagtgaaattaattattt 5211
 ||||| ||||| |||||
 Sbjct: 42082367 aatttttagtggttatataataacgacattaattattt 42082333

Score = 83.8 bits (42), Expect = 5e-13
 Identities = 140/170 (82%), Gaps = 2/170 (1%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttat-aacata
 5220
 ||||| ||||| ||||| ||||| |||||
 Sbjct: 1455940 taaatttacattaaaaaatttaattggttatataatgatattaattatttttttaata
 1455881

Query: 5221 attgatgtattagttcagttgggttagagcattatgttaataatgtgaaagtcaaaagttc
 5280
 ||||| ||||| ||||| ||||| |||||
 Sbjct: 1455880 attaatTTTtaaattcagtttGTaaaacattatgttaataatctgatactcacaatat
 1455821

Query: 5281 aattcttacttggatcattaatttttaaattaatttGTaaaatatattttt 5330
 ||||| ||||| ||||| |||||
 Sbjct: 1455820 aa-acttacatgaaccattaatttttaaattattttataaaaatatattttt 1455772

Score = 83.8 bits (42), Expect = 5e-13

Score = 81.8 bits (41), Expect = 2e-12

Score = 81.8 bits (41), Expect = 2e-12

Identities = 131/161 (81%)
Strand = Plus / Minus

Query: 7061 aagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgt
7120
||||||| ||| | || ||||| ||||| ||||| ||||| ||
Sbjct: 36043222 aagaattgtgtgtcccgttgatcgaactcaagaacattgtgagtgtttgcctttctaagt
36043163

Query: 7121 atgtctttcatagccttggttaataacttttgtataaacttcaccaaataatcactctt
7180
||| ||||| ||||| ||||| ||||| || ||| ||| ||| ||
Sbjct: 36043162 gcttcttcagtagccttggttagtactttcgtataaacttggtcagatgcaagcattatt
36043103

Query: 7181 gcgacttctctccccctttggttgaacaatgcattacacct 7221
| ||||| |||| | || ||||| ||||| |||||
Sbjct: 36043102 gtgacttctctccctcttttattcaacaatgcattacacct 36043062

Score = 81.8 bits (41), Expect = 2e-12
Identities = 44/45 (97%)
Strand = Plus / Plus

Query: 5291 tggatcatthaatttttaaatattgtgaaaatatatttttgaaaa 5335
||||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46677653 tggatcatthaatttttaaatattgtgaaaatatattttttaaaa 46677697

Score = 79.8 bits (40), Expect = 7e-12
Identities = 58/64 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaataacattaga
5176
||||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42384989 aaaattaattgtcacaaaatttattatataaatttattgtacattaaataacattaga
42384930

Query: 5177 aatt 5180
|||
Sbjct: 42384929 aatt 42384926

Score = 77.8 bits (39), Expect = 3e-11

Identities = 178/222 (80%), Gaps = 3/222 (1%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattag
 5175
 |||||
 Sbjct: 7450421 aaaaattaattatcataaaaatttattatgttaaatttacatgtatattaaatatatattaa
 7450362

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235
 |||||
 Sbjct: 7450361 aaaatttaattattatatatagcaatattaatta-tttataacataattagtctattaact
 7450303

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
 5295
 |||||
 Sbjct: 7450302 caattaattagagtgttgctgaataa--tgaaaggtataagtttgatttttgcttggac
 7450245

Query: 5296 catthaatttttaaattaatttgtaaaatatatttttgaaaaaa 5337
 |||||
 Sbjct: 7450244 catthaatttttaaattaattcaaaaatttatatttttgaaaaaa 7450203

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 88/104 (84%), Gaps = 3/104 (2%)
 Strand = Plus / Plus

Query: 5130 acaaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtta
 5189
 |||||
 Sbjct: 6514605 acaaaaatttattatttaaatttacatacgcatthaattatatattaaaagtttttagtggtta
 6514664

Query: 5190 tatttagtgaaattaattattttataacataattgatgtattag 5233
 |||||
 Sbjct: 6514665 tatatagcaacat---ttattttataacataattgatctattag 6514705

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 92/110 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataacataacattaga
5176
 ||||| ||| ||||| ||||| ||||| ||| ||| ||||| |||||
Sbjct: 7684129 aaaattaattattataaaatttattatttaaatttatatgcgcattaaatatgcattaga
7684070

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgat 5226
 ||| |||| ||| | | | ||| ||||| ||||| |||||
Sbjct: 7684069 aattgtagtgatatgtatcataacattattttattttataacctaattgat 7684020

Score = 75.8 bits (38), Expect = 1e-10
Identities = 265/340 (77%), Gaps = 3/340 (0%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggttacctgattcttggatatccattttgggtgtgt
6737
 ||||| ||| ||||| ||||| ||| ||| ||||| ||||| |||||
Sbjct: 36043597 atgcgacacaggaaacattgttttgggtgacctagttctcggatatccatttcggtgtgg
36043538

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797
 ||||| | | ||| || ||| ||||| ||| |||| |||| | |
Sbjct: 36043537 atacgagtgaaaacaagatgaccattagtagtcttcttttgttttctgggtcgggggagatc
36043478

Query: 6798 cttggcttgtagacatgggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857
 ||||| || ||||| || | ||| ||||| ||| |||| | ||
Sbjct: 36043477 attggctcgtaacatgggtggtcattaggcttgggtgcacaattctccaataatcctctg
36043418

Query: 6858 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgg
6917
 || | ||| ||| || | ||| ||||| ||||| ||||| | ||||| |
Sbjct: 36043417 tatacgttggagaaacattccaacgtatatacaagatgcatgtagtttttgtactcacga
36043358

Query: 6918 tgagcatgcttataa---acaacaacatgagaacaaacatgtgcattttttgaaatttg
6974
 ||| ||||| || ||||| ||||| || | |||| | ||| |||||
Sbjct: 36043357 tgaacatgcttacaagcaacaacaacatgagaataaggcttggtgcaacttctggaatttg
36043298

Query: 6975 tcacagtcacactacctttcatctagcttgaccatgaaat 7014
 ||||| ||||| ||| | |||||
Sbjct: 36043297 ctacagtcacaccacctttcatccagcctaaccatgaaat 36043258

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 88/102 (86%), Gaps = 2/102 (1%)
 Strand = Plus / Minus

Query: 5122 taattgttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaattt
 5181
 ||||| |||||||||||||||||||||||| ||||| | ||||||||||||||| |||||
 Sbjct: 46843723 taattattacaaaatttattatctaaatttagatgcatattaaatatacatta-taattt
 46843665

Query: 5182 tagtggttatatttagtgaaattaattatttataacataatt 5223
 || | ||||| || | | ||||||| |||||||||||||
 Sbjct: 46843664 taatattatatattaacattaatta-tttataacataatt 46843624

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 40/41 (97%)
 Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatcaactt 1686
 ||||||||||||||||||| |||||||||||||||
 Sbjct: 46381344 gccttatcccactaggtgggatcggctacatggatcaactt 46381304

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 57/64 (89%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||||||||| ||||||||||||| ||||||| |||| | ||||||| |||||
 Sbjct: 7967890 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatgcattaga
 7967831

Query: 5177 aatt 5180
 ||||
 Sbjct: 7967830 aatt 7967827

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 90/107 (84%), Gaps = 2/107 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaattttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 30827075 aaaattaattgtcacaa--tttattttttaaatattacatgcgcattaaatatattaga
30827132

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223

|| |||||
Sbjct: 30827133 aaatttagtggttatgtataacaatattattttattttataacataatt 30827179

Score = 71.9 bits (36), Expect = 2e-09
Identities = 75/88 (85%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221

|||||
Sbjct: 37981378 taaatatacattagaaaattttactggttatatatagcaacattaattaactttaaatataa
37981319

Query: 5222 ttgatgtattagttcagttgggttagagc 5249

|||| |||||
Sbjct: 37981318 ttgacctattagctcagttgggttagagc 37981291

Score = 71.9 bits (36), Expect = 2e-09
Identities = 90/108 (83%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaattttattatctaaatttgcacataaatatacattag
5175

|||||
Sbjct: 48047501 aaaaattaattatcacaaaattttattatgtaaatttacctggtgcatattatatattaa
48047560

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataatt 5223

|||||
Sbjct: 48047561 aaattttaattatatataacgacattaattattttgtaataataatt 48047608

Score = 69.9 bits (35), Expect = 7e-09
Identities = 89/107 (83%)
Strand = Plus / Plus

Query: 6562 aattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaaaattttaaaat
6621

||||| ||||| ||||||||| ||||||||| ||| || ||||| ||| |||
Sbjct: 9285542 aattaccaacaacggaacaaaatatataaatttgaattaagaccacaaaattttacaaat
9285601

Query: 6622 acaaacaatatggcataaaaattaatgttgttggcctgagcctacaca 6668

||||||| |||| | | || ||||| ||| |||||
Sbjct: 9285602 acaaacaatatgacatacattcaacattgttggcttgaacctacaca 9285648

Score = 69.9 bits (35), Expect = 7e-09
Identities = 110/134 (82%), Gaps = 2/134 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||| ||||||||| ||||||||| ||||| || ||| ||| ||||| |||
Sbjct: 9763512 aaaattaattgttataaaaatttattatgtaaaattatatgtatattaaatatacattgta
9763453

Query: 5177 aatttttagtggttatattt--agtgaattaattattttataacataattgatgtattagt
5234

||||||| ||||||||| | | || ||||| ||||| ||||||||| |||||
Sbjct: 9763452 aattttaatggttatatacatcgatgttaattcttttttaacataattgacctattaac
9763393

Query: 5235 tcagttgggtagag 5248

||||||| |||||
Sbjct: 9763392 tcagttgggtagag 9763379

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataaatatacattagaaatttttagtggtta
5189

||||||| ||||||||| ||||| ||| ||| ||||| ||||| ||||| |||||
Sbjct: 11713500 acaaaatttattatgtaaaatttacatatacattaaatataaaattaaaaatttttagtggtta
11713559

Query: 5190 tat 5192

|||
Sbjct: 11713560 tat 11713562

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtta
5189
 |||||
Sbjct: 48998109 acaaaatttattatataaaatttacatgtacattaaatataaaattaaaaattttaatgtta
48998168

Query: 5190 tat 5192
 |||
Sbjct: 48998169 tat 48998171

Score = 67.9 bits (34), Expect = 3e-08
Identities = 55/62 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 |||||
Sbjct: 8214960 taaatatacattataaaattttggtgttatatatatcgacattaattattttttaacataa
8214901

Query: 5222 tt 5223
 ||
Sbjct: 8214900 tt 8214899

Score = 67.9 bits (34), Expect = 3e-08
Identities = 37/38 (97%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaa 5333
 |||||
Sbjct: 14988075 cattaatttttaaattaatttcgtaaaatatatttttgaa 14988112

Score = 67.9 bits (34), Expect = 3e-08
Identities = 88/106 (83%)
Strand = Plus / Minus

Query: 7134 ccttgtttaatacttttgtataaacttcaccaaagtgaatcactcttgcgacttctctcc
7193

||||||| ||||| | ||||| ||||| || || | ||| | |||||
Sbjct: 19395011 ccttgtttagtacttctatataaacttggccaaatgcaagcattggttggtggttctctcc
19394952

Query: 7194 ccctttgggtgaacaatgcattacacctagtatagggtgattttac 7239
| ||| ||||| ||||| ||||| ||| ||||| |||||

Sbjct: 19394951 catttttggtgaacaatgcattacacctacatatgttgattttac 19394906

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/54 (90%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattattttatgaataaataaaagggttttattcttaaattt 5066
||||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 41019178 aataattttaataaattattttataaataaataaaaaatattcattcttaaattt
41019125

Score = 65.9 bits (33), Expect = 1e-07
Identities = 42/45 (93%)
Strand = Plus / Minus

Query: 5296 cattaattttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
||||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 3350530 cattaattttaaattaatcgtaaaatatatttttgaaaaaaaaa 3350486

Score = 65.9 bits (33), Expect = 1e-07
Identities = 48/53 (90%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaaagggttttattcttaaattt 5066
||||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 17426500 ataattttaataaactattttatgagtaaaataaaaagtcttattattaaattt
17426448

Score = 65.9 bits (33), Expect = 1e-07
Identities = 45/49 (91%)
Strand = Plus / Minus

Query: 7318 catgcgagagtcacttttcttgtggaatcttcctaagctaattaattg 7366
|||||
Sbjct: 19394807 catgcgagagtcatttttttgtggaatcttgtaagctaattaattg 19394759

Score = 65.9 bits (33), Expect = 1e-07
Identities = 103/125 (82%), Gaps = 1/125 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacacataaatatacattaga 5176
|||||
Sbjct: 40771995 aaaattaattggttataaaaatttattatgtaaacttatatttgattaaatatacactaaa 40772054

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc 5236
|||||
Sbjct: 40772055 aatttttagtggttatataaacgacattaattttttta-aatataattgatttattaactc 40772113

Query: 5237 agttg 5241
|||||
Sbjct: 40772114 agttg 40772118

Score = 65.9 bits (33), Expect = 1e-07
Identities = 36/37 (97%)
Strand = Plus / Plus

Query: 5294 atcatthaatttttaaattaatttgtaaaatatattttt 5330
|||||
Sbjct: 47907073 atcatthaatttttaaattaatttagtaaaatatattttt 47907109

Score = 63.9 bits (32), Expect = 4e-07
Identities = 71/84 (84%)
Strand = Plus / Plus

Query: 5265 tgaaagtcaaaagttcaattcttacttggaatcattaatttttaaattaatttgtaaaatat 5324
|||||
Sbjct: 7432507 tgaaagtcacaagtttgattcttgcttggaaccattaatttttaaattaattcatcataaat 7432566

Score = 62.0 bits (31), Expect = 2e-06
Identities = 34/35 (97%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 |||||||||||||||||||||||||||||
 Sbjct: 8215066 aaaattaattgttacaaaatttattatgttaaattt 8215100

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 58/67 (86%)
 Strand = Plus / Minus

Query: 6720 atatccattttggtgtgtatacgagaggagacatgacaacctttagaatttcttttcatt
 6779
 ||||||||||| |||||||||||||||| || || ||| | |||||||||||||||| | |||
 Sbjct: 14520505 atatccatttcggtgtgtatacgagaagatactagacgatctttagaatttcttattatt
 14520446

Query: 6780 tttgggt 6786
 |||||||
 Sbjct: 14520445 tttgggt 14520439

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 73/87 (83%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 |||||||||||||| ||| |||||||||||||| ||| || |||| | |||||| ||| |||||
 Sbjct: 37981745 taaatatacattaaaaaatttttagtggttatatatagagacattagttattttttaataata
 37981804

Query: 5222 ttgatgtattagttcagttgggttagag 5248
 || ||||| ||||||||||||||||
 Sbjct: 37981805 tttagcttattaactcagttgggttagag 37981831

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 30/30 (100%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggct 1672
 |||||||||||||||||||||||||||||
 Sbjct: 805050 aacgccttatcccactaggtgggggtcggct 805079

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 54/62 (87%)
 Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagcattatgttaaat
 5260
 |||| |
 Sbjct: 9518384 attatTTtattTTtataacgtaattgatttattagcttagttggTTaaagcattgtgataat
 9518325

Query: 5261 aa 5262
 ||
 Sbjct: 9518324 aa 9518323

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 87/105 (82%), Gaps = 2/105 (1%)
 Strand = Plus / Plus

Query: 7184 acttctctccccctttggttgaacaatgcattacacctagtataggttgattttaccaac
 7243
 ||||| |
 Sbjct: 11976711 acttctttccctcttttgttgaacaatgcattacaccttacatatgtggattttactagc
 11976770

Query: 7244 acac--attgccagattttgtgttttcttgagtaccaaattaatt 7286
 |||| |
 Sbjct: 11976771 acacctattggcaaatttcttgatttcttgagtacgaaattaatt 11976815

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 36/38 (94%)
 Strand = Plus / Minus

Query: 5061 aaatttgcttgagccctctcaagtccttgagccgcccc 5098
 |||||
 Sbjct: 37736049 aaatttgctttaggccctctcaagtccttgagccgcccc 37736012

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 54/62 (87%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtgttatatttagtgaaattaattatTTTtataacataa
 5221

```

|||||
Sbjct: 37981545 taaatatacattaaaaaatttagtggttatatatagagacatttattattttttaataataa
37981604
```

```

Query: 5222      tt 5223
              ||
Sbjct: 37981605 tt 37981606
```

Score = 60.0 bits (30), Expect = 7e-06
Identities = 36/38 (94%)
Strand = Plus / Minus

```

Query: 6431      tcctttgtattttttattttatttgattattataataca 6468
              |||||||
Sbjct: 41003290 tcctttgtatttttcattttatttgattattaaaataca 41003253
```

Score = 60.0 bits (30), Expect = 7e-06
Identities = 51/58 (87%)
Strand = Plus / Plus

```

Query: 5166      tatacattagaaatttttagtggttatatttagtgaaattaattattttataacataatt
5223
              |||| |||| |||||||
Sbjct: 46079516 tatatattaaaaatttttagtggttatatataatgacggttaattattttttaacataatt
46079573
```

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

```

Query: 1646      gccttatcccactaggtggggtcggctacatggatca 1682
              |||||||
Sbjct: 4333816 gccttatcccactaggtgaggtcggctacatggatca 4333780
```

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

```

Query: 1646      gccttatcccactaggtggggtcggctacatggatca 1682
              |||||||
```


Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatag
5175

|||||
 Sbjct: 18049369 aaaaattaattatcacaaaatctattatataaatttacatgtgcattaaatatacattaa
 18049310

Query: 5176 aaatttta 5183
 ||| |||
 Sbjct: 18049309 aaaattta 18049302

Score = 56.0 bits (28), Expect = 1e-04
 Identities = 73/88 (82%)
 Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
 6737
 |||||
 Sbjct: 19395466 atgcgacacacaaaacatcactttggttgacttggttctcggatatccatttcagtgtgg
 19395407

Query: 6738 atacgagaggagacatgacaacctttag 6765
 |||||
 Sbjct: 19395406 atacgagaggaaacgagacaaccttag 19395379

Score = 56.0 bits (28), Expect = 1e-04
 Identities = 61/72 (84%)
 Strand = Plus / Plus

Query: 5013 aataattttaataaattattttatgaataaataaaagggttttattcttaaatttgcttga
 5072
 |||||
 Sbjct: 36908499 aataattttaacaagtcattttatgagtaaataaaaattctcattcttaaatttgcttta
 36908558

Query: 5073 gccctctcaagt 5084
 | |||||
 Sbjct: 36908559 gccctctcaagt 36908570

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 30/31 (96%)
 Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatattttaatt 6546
 |||||

Sbjct: 9130087 acaagttgaattgaactaaaatatttaaatt 9130117

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 90/111 (81%)
 Strand = Plus / Plus

Query: 6711 gattcttggatatccattttggtgtgtatacgagaggagacatgacaacctttagaattt
 6770

||||| ||||||||| ||||| ||||||||| || | ||||| ||
 Sbjct: 9130257 gattctcggatatccatttcagtgtgaatacgagaggagacaggaagatccttagtactt
 9130316

Query: 6771 cttttcatttttgggttggggcaaattcttggcttgtgacatggtgaccaa 6821

||||| ||| |||||| ||| | || |||||| | |||| |||||||||
 Sbjct: 9130317 cttttcttttctgggttagggaagatcattggctcatgacacggtgaccaa 9130367

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 39/43 (90%)
 Strand = Plus / Plus

Query: 5277 gttcaattcttacttggatcattaatttttaaattaatttgtaa 5319

|||| | ||||||||| || ||| ||||||||| |||||||||
 Sbjct: 33558374 gttcgattcttacttgaaccataaatttttaaattaatttgtaa 33558416

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 33/35 (94%)
 Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682

||||||| ||||||||| |||||
 Sbjct: 44020624 cttatcccactaggtgaggtcggctacatcgatca 44020590

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 33/35 (94%)
 Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaaa 5048

||||||| ||||||||| |||||||||
 Sbjct: 44996211 ataattttaataaactattttatgagtaaataaaa 44996177

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatt 5150
 ||||| |||||||||||||||||||| |||||
Sbjct: 4629527 aaaataaattgttacaaaatttattatgttaaatt 4629560

Score = 52.0 bits (26), Expect = 0.002
Identities = 44/50 (88%)
Strand = Plus / Minus

Query: 5042 aataaaagggttttattcttaaatttgcttgagccctctcaagtccttgag 5091
 ||||||| ||||||||||||||||||| || || ||||||| |||||||
Sbjct: 42749250 aataaaagattttattcttaaatttgtttagatctctcaaataccttgag 42749201

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatttttgaaaaaa 5337
 ||||||| ||||||||||||||||||| |||||
Sbjct: 43192909 attaatttgtaaaatatattttttaaaaaaa 43192880

Score = 52.0 bits (26), Expect = 0.002
Identities = 41/46 (89%)
Strand = Plus / Plus

Query: 5206 ttatttttataacataattgatgtattagttcagttggtagagcat 5251
 ||||||| |||||||||||||||| | ||||| | ||||| |||||||
Sbjct: 43455647 ttatttttataacataattggtctattagcttagttgattagagcat 43455692

Score = 52.0 bits (26), Expect = 0.002
Identities = 65/77 (84%), Gaps = 2/77 (2%)
Strand = Plus / Plus

Query: 5275 aagttcaattcttacttggatcattaattttaaatatttgtaaaatatatatttttgaaa
5334

||||||| | ||||| | ||||| ||||| || | | ||||| |
Sbjct: 48339845 aagttcaagttttacttgggatattaattttaaatatttcgtcacaaatatattttt--ca
48339902

Query: 5335 aaaaaattataaaaaaa 5351

||||||| |||||
Sbjct: 48339903 aaaaaattataaaaaaa 48339919

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 6434 tttgtatttttattttatttgatta 6458

||||||| ||||| ||||| ||||| |||||
Sbjct: 1693709 tttgtatttttattttatttgatta 1693685

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Minus

Query: 5368 gatcatacaaatgaaagaggttcacatatatta 5400

||||| ||||| ||||| ||||| |||||
Sbjct: 3900933 gatcataaaaatgaaagaaggttcacatatatta 3900901

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 5318 aaaatatatttttgaaaaaaaaattataaaaaa 5350

|||| ||||| ||||| ||||| ||||| |||||
Sbjct: 5573598 aaaacatatatttttgaaaaaaaaattataaaaaa 5573630

Score = 50.1 bits (25), Expect = 0.007
Identities = 49/57 (85%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataacattagaaatttttagtg 5186

||||||| ||||| ||| | || ||||| ||||| |||||

Sbjct: 9762847 acaaaatttattatttcaaatttacattctcattaaatatgcattagaaatgtagtg
9762903

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattga 5225
 |||||
Sbjct: 18049296 attaattattttataacataattga 18049272

Score = 50.1 bits (25), Expect = 0.007
Identities = 55/65 (84%)
Strand = Plus / Minus

Query: 6733 tgtgtatacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggc
6792
 ||||| ||||| | ||||| ||||| ||||| | ||||| |||||
Sbjct: 22220424 tgtgtatatgagaggatattggacaacatttagaattttttaacatttttgggttggggc
22220365

Query: 6793 aaatt 6797
 ||||
Sbjct: 22220364 aaatt 22220360

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Plus

Query: 5742 aaaacatcaaatttgctaaaagatccttaaactttaattgaaaaa 5786
 |||| ||||| ||||| ||||| ||||| ||||
Sbjct: 24393489 aaaaaatcaaatttgctaaaaggcccttagactttaattgcaaaa 24393533

Score = 50.1 bits (25), Expect = 0.007
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 7438 aatgaacaacacacatgacaactacaaatcattaaataata 7478
 ||||| || ||||| ||||| ||||| |||||
Sbjct: 29501236 aatgaaaaatacacatgatgactacaaatcattaaataata 29501196

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 3851 gatagcaattgtaggaagtgggttatattg 3879
|||||||
Sbjct: 36487027 gatagcaattgtaggaagtggatatattg 36486999

Score = 50.1 bits (25), Expect = 0.007
Identities = 55/65 (84%)
Strand = Plus / Plus

Query: 5239 ttggttagagcattatgttaataatgtgaaagtcaaaagttcaattccttacttggatcat
5298
||||||| || |||||
Sbjct: 39911361 ttggttagaatatcatgttaataatgcaaaagttataggttcaattccttacttgaaccat
39911420

Query: 5299 taatt 5303
||||
Sbjct: 39911421 taatt 39911425

Score = 50.1 bits (25), Expect = 0.007
Identities = 91/113 (80%), Gaps = 10/113 (8%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattgtta---caaaatttattatctaaatttgcattgcacaataaatatataca
5171
||||||| || |||||
Sbjct: 43193091 aaaaaattaattatttagatcaaaatttattatttaaacttacatgtgcattaaatatata
43193032

Query: 5172 ttagaaatttttagtggttatatttagtgaaattaattattttataacataattg 5224
||| ||| ||||| || |||||
Sbjct: 43193031 ttaaaaaatttagtggttat-----gacattaattattttataatataattg
43192986

Score = 50.1 bits (25), Expect = 0.007
Identities = 46/53 (86%)

Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatata 5169
 ||||||| | ||||||||| ||||| || | |||||
Sbjct: 43455580 aaaattaattatcacaaaatttattatttaaatttacatacaccttaaata
43455632

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 5542 ttgaacttttttttaaaaaaaaaa 5566
 ||||||| |||||||
Sbjct: 47603197 ttgaacttttttttaaaaaaaaaa 47603221

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||||| ||| | |||||||
Sbjct: 48868450 gccttatcccactaggtgaggttgactacatggatca 48868414

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttg 5152
 ||||||| || ||||||||| |||||
Sbjct: 4557685 aaaattaattattataaaatttattatataaatttg 4557650

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatg 5156
 ||||||| ||||||||| ||||| |||
Sbjct: 7682217 aaaattaattgtcacaaaatttattaagtaaatttacatg 7682178

Score = 48.1 bits (24), Expect = 0.026
Identities = 63/76 (82%)
Strand = Plus / Plus

Query: 7681 aaaacatagtaattattttcctcatcatcttgacgcatacatgcctgtactgaaaacaat
7740
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9133776 aaaacatagtcattacatcctcgtcatcgtgcaacatgcatgctatgtacttcccacaat
9133835

Query: 7741 caccaacaaatgatac 7756
 |||||
Sbjct: 9133836 caccaacaaatgatac 9133851

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggctcggctacatggatca 1682
 ||||| ||||| || |||||
Sbjct: 9215139 ccttatcccattaggtgaggttggtacatggatca 9215104

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 7265 tttcttgagtaccaaattaattaactca 7292
 ||||| ||||| |||||
Sbjct: 9286247 tttcttgagtaccaaattaattgactca 9286274

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/52 (86%)
Strand = Plus / Plus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagcatt 5252
 ||||| ||||| ||||| ||||| || ||||| |||||
Sbjct: 9762939 attatttattTTTtataacgtaattgatttattagcttatttggttagaacatt 9762990

Score = 48.1 bits (24), Expect = 0.026
 Identities = 54/64 (84%)
 Strand = Plus / Plus

Query: 6681 cgacacatggaacatcattttgggtttacctgattcctggatatccattttgggtgtgtata 6740
 ||||| | ||||| ||||| || | |||| | ||||| ||||| ||||| |||||
 Sbjct: 11976308 cgacacacgaaacatcgctttgggttgacccattctcggatatccattttgatgtggata 11976367

Query: 6741 cgag 6744
 ||||
 Sbjct: 11976368 cgag 11976371

Score = 48.1 bits (24), Expect = 0.026
 Identities = 36/40 (90%)
 Strand = Plus / Minus

Query: 5291 tggatcattaatttttaaattaatttgtaaaatatattttt 5330
 |||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 14987353 tggaccattaatttttaaataattctttaaatatattttt 14987314

Score = 48.1 bits (24), Expect = 0.026
 Identities = 36/40 (90%)
 Strand = Plus / Plus

Query: 7309 ccaccatcccatgcgagagtccacttttcttggtgaatct 7348
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 16933367 ccaccatcccatgcaagagtccatttttcatgcggaatct 16933406

Score = 48.1 bits (24), Expect = 0.026
 Identities = 33/36 (91%)
 Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggctcggctacatggatca 1682
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 28027474 ccttattccactaggtgatgtcggctacatggatca 28027439

Score = 48.1 bits (24), Expect = 0.026
 Identities = 24/24 (100%)

Strand = Plus / Minus

```
Query: 5545      aacttttttttaaaaaaaaaaaaaa 5568
               |||||
Sbjct: 35849242 aacttttttttaaaaaaaaaaaaaa 35849219
```

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/52 (86%)
Strand = Plus / Plus

```
Query: 5117      aaaattaattgttacaaaatttattatctaaatttgcacataaataat 5168
               |||||
Sbjct: 43557663 aaaattaattatcataaaatttattatttaatttacatgcgcattaaatat 43557714
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

```
Query: 3628      ttctaaatccaaaactaacaatagtgaggaa 3658
               |||||
Sbjct: 287216    ttctaaatccaaaactaacgattgtgaggaa 287186
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 41/47 (87%)
Strand = Plus / Minus

```
Query: 5201      attaattatTTTtataacataattgatgtattagttcagttgggttaga 5247
               |||||
Sbjct: 4557607  attaattatTTTtataatataattaatatattaactcagtttggttaga 4557561
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

```
Query: 6435      ttgtatTTTtattttatttgattatta 6461
               |||||
Sbjct: 9285457  ttgtatTTTcattttatttgattatta 9285483
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattat 5143
 ||||| ||||||||||||||||
Sbjct: 9763609 aaaattagttggtacaaaatttattat 9763635

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5032 tttatgaataaataaaaagggttttattcttaaattt 5066
 |||||||||||||||||| ||||||||||||
Sbjct: 13716691 tttatgaataaataaaaagggtcaaattcttaaattt 13716725

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||||||||||||||||||
Sbjct: 17367875 ttttttttaaaaaaaaaaaaaaaca 17367853

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5544 gaacttttttttaaaaaaaaaaaa 5566
 ||||||||||||||||||||
Sbjct: 19078934 gaacttttttttaaaaaaaaaaaa 19078956

Score = 46.1 bits (23), Expect = 0.10
Identities = 50/59 (84%)
Strand = Plus / Minus

Query: 5179 ttttagtggttatatttagtgaaattaattttttataacataattgatgtattagttca
5237
 |||| | |||| | | |||| | |||||||||| || | |||| | | ||||||||

Sbjct: 41889419 ttttaatgttacatatagtgacattaattatTTTTTaatataattaacttatttagttca
41889361

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682
||||||| ||||| ||||| ||||| |||||
Sbjct: 42037089 cttatcccattaggtgaggtcggctacatgaatca 42037123

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5296 cattaatTTTaaattaatttgtaaaatatatTTTT 5330
||||||| ||||| ||||| |||||
Sbjct: 42204217 cattaatTTTaaattaatttcttaaaacatatTTTT 42204251

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 5297 attaattTTTaaattaatttgtaaaatatatt 5327
||||||| ||||| ||||| |||||
Sbjct: 43452561 attaattTTTaaattaatttgtaaaatttatt 43452591

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 6481 aacttaattgaaattaaaaaatatatattta 6511
||||||| ||||| ||||| ||||| |||||
Sbjct: 48676874 aacttaattcaaataaaaaaatatatattta 48676904

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttat 5036
 |||||
Sbjct: 48768420 ataattttaataaattatatttat 48768442

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5464 catacaaataaagagggtcacatatatta 5493
 |||| |||||
Sbjct: 3900930 cataaaaataaagaaggtcacatatatta 3900901

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5540 tattgaacttttttttaaaaaaaaaaaaac 5569
 ||||| |||||
Sbjct: 7058321 tattgaatttttttttaaaaaataaaaac 7058292

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttataaaaatttatta 5142
 |||||
Sbjct: 9055542 aaaattaattgttataaaaatttatta 9055517

Score = 44.1 bits (22), Expect = 0.41
Identities = 43/50 (86%)
Strand = Plus / Plus

Query: 7459 ctacaaatcattaaataataacaattacaataaatttggggaggggg 7508
 ||||| ||||| ||| | | ||||| ||||| |||||
Sbjct: 9133548 ctacaaatcattacataataaaatgatattcaaataaattgggggggggg 9133597

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 6298 tttttattttttttgttattaattgt 6323
 |||||||||||||||| ||||||||
Sbjct: 18851692 tttttattttttttgtttttaattgt 18851717

Score = 44.1 bits (22), Expect = 0.41
Identities = 37/42 (88%)
Strand = Plus / Minus

Query: 5171 attagaaatttttagtgttatatatttagtgaaattaattatattt 5212
 |||| ||||||| || ||||||| ||||||| |||||||||||||
Sbjct: 26127158 attaaaaattttggtattatatatagtgacattaattatattt 26127117

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||||||||||||||||||||
Sbjct: 28581430 tttttttttaaaaaaaaaaaaaaac 28581409

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttta 5183
 |||||||||||||||||||||
Sbjct: 37687512 taaatatacattagaaatttta 37687491

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||||
Sbjct: 39677995 cttttttttaaaaaaaaaaaaaa 39677974

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5555      taaaaaaaaaaaaacaagtaat 5576
                |||||
Sbjct: 40844060 taaaaaaaaaaaaacaagtaat 40844081
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaac 5569
                |||||
Sbjct: 41069943 ttttttttaaaaaaaaaaaaaac 41069922
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5115      aaaaaattaattgttacaaaat 5136
                |||||
Sbjct: 41894381 aaaaaattaattgttacaaaat 41894360
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Minus

```
Query: 5296      cattaatttttaaattaatttgtaaaatatatttttgaa 5333
                ||||| |||| | |||| |||||
Sbjct: 41904659 cattaatttttaaatcaattcgcaaaacatatattttgaa 41904622
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaac 5569
```


|||||
Sbjct: 44135774 tttttttttaaaaaaaaaaaaaaac 44135753

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6490 gaaattaaaaaatatatattta 6511
|||||
Sbjct: 46045942 gaaattaaaaaatatatattta 46045921

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6325 tatatttggtgttctgtttaaat 6346
|||||
Sbjct: 46697910 tatatttggtgttctgtttaaat 46697889

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5550 tttttttaaaaaaaaaaaaaacaagtaa 5575
|||||
Sbjct: 46743520 tttttttaaaaaaaaaaaaaaaagtaa 46743495

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 48010719 cttttttttaaaaaaaaaaaaaa 48010740

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6488 ttgaaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 67366 ttgaaattaaaaaatatataattaa 67342

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 649779 ttttttttaaaaaaaaaaaaaa 649759

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 1808341 ttttttttaaaaaaaaaaaaaa 1808321

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6264 cttttttttttgttttgttttaaaa 6288
|||||||
Sbjct: 1837828 cttttttttttgttttgttttaaaa 1837804

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 2140694 ttttttttaaaaaaaaaaaaaa 2140674

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 3000010 ttttttttaaaaaaaaaaaaaa 3000030

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5543 tgaacttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 4038005 tgaacttttttttagaaaaaaaaaaaaa 4038029

Score = 42.1 bits (21), Expect = 1.6
Identities = 78/96 (81%), Gaps = 2/96 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
||||||| ||| ||||| ||||| ||||| || || || ||||| |||||
Sbjct: 4165068 aaaattaattattataaaaatttattatataaaactt--atatatattaaatatgtattaga
4165011

Query: 5177 aatttttagtggttatatttagtgaaattaattatttt 5212
||||||| ||||| || ||| |||||
Sbjct: 4165010 aattttaatatatatattgataataattatttt 4164975

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 5959686 ttttttttaaaaaaaaaaaaaa 5959666

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Plus

Query: 6291 gtttgtatTTTTATTTTTTTT 6311
|||||
Sbjct: 6163456 gtttgtatTTTTATTTTTTTT 6163476

Score = 42.1 bits (21), Expect = 1.6
Identities = 39/45 (86%)
Strand = Plus / Plus

Query: 5742 aaaacatcaaatttgctaaaagatccttaaactttaattgaaaaa 5786
|||| ||||| ||| ||| ||| ||||| |||
Sbjct: 6521854 aaaatatcaaatttgcaaaatgatctttagactttaattgcaaaa 6521898

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 6953804 ttttttttaaaaaaaaaaaaaa 6953784

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaag 1230
||||| ||||| |||
Sbjct: 7296172 catacctttctctaccttttggctaagttcaag 7296204

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
||||| ||||| |||
Sbjct: 8550042 gccttatcccactaggtgagatcggctgcagggatca 8550006

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 7499 ggggagggggtcttcaaaacttgattcaagggttcatt 7535
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9133594 ggggggggggggcttcctaacttgattcaagggttcatt 9133630

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 2811 ttcataataaaatggagattcttatg 2835
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10324842 ttcataataaaatgaagattcttatg 10324818

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 2811 ttcataataaaatggagattcttatg 2835
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10665766 ttcataataaaatgaagattcttatg 10665742

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaaaca 5570
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 13108500 actttttttttaaaaaaaaaaaaaaaca 13108524

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15571672 tttttttttaaaaaaaaaaaaaa 15571692

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5306 aaattaatttgtaaaatatatattttt 5330
||||||| |||||
Sbjct: 16922950 aaattaatttataaaatatatattttt 16922926

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 17471189 ttttttttaaaaaaaaaaaaaa 17471169

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 5306 aaattaatttgtaaaatatatatttttgaaaaaaaaaatt 5342
||||||| || ||||| || |||||
Sbjct: 18049392 aaattaatttgtaaaacattttttttaagaaaaaatt 18049428

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 21464013 ttttttttaaaaaaaaaaaaaa 21464033

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6488 ttgaaattaaaaaatatatat 6508
 |||||
Sbjct: 21678447 ttgaaattaaaaaatatatat 21678467

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5543 tgaacttttttttaaaaaaaaaaaaa 5567
 |||| |
Sbjct: 24887443 tgaatttttttttaaaaaaaaaaaaa 24887467

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 25735348 ttttttttaaaaaaaaaaaaaaa 25735368

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 6580 aaaatatattaaatttgaaataatacaaca 6608
 |||||
Sbjct: 25784027 aaaatatattaaatttgaaacaataaaaaca 25783999

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 1855 tacatgcccaaaccacctaag 1875
 |||||
Sbjct: 27656334 tacatgcccaaaccacctaag 27656354

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)

Strand = Plus / Minus

```
Query: 5296      cattaatttttaaattaatttgtaaaatatattt 5328
               |||||
Sbjct: 28801927 cattaatttttaaattaattcataaaacatatattt 28801895
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5546      actttttttttaaaaaaaaaa 5566
               |||||
Sbjct: 30582002 actttttttttaaaaaaaaaa 30581982
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 7736      acaatcaccaacaaatgatac 7756
               |||||
Sbjct: 36038826 acaatcaccaacaaatgatac 36038806
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaa 5567
               |||||
Sbjct: 37071755 ctttttttttaaaaaaaaaa 37071775
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttttaaaaaaaaaa 5568
               |||||
Sbjct: 38677298 ttttttttttaaaaaaaaaa 38677278
```


Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4794 ttaataagtaataatttttta 4814
 |||||
Sbjct: 38856487 ttaataagtaataatttttta 38856507

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 39379944 aacttttttttaaaaaaaaaa 39379924

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5568
 |||||
Sbjct: 40884527 ttttttttaaaaaaaaaaaaa 40884547

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5297 attaatTTTaaattaatttgtaaaa 5321
 |||||
Sbjct: 41647056 attaatTTTaaattattttgtaaaa 41647032

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 42054957 ctttttttttaaaaaaaaaaaaa 42054977

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6282 tttaaaattgtttgtatttttattt 6306
 ||||| |||||
Sbjct: 43209678 tttaaaattgtttgtatttttattt 43209654

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 43271534 ttttttttaaaaaaaaaaaaaa 43271514

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5327 ttttgaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 43735363 ttttgaaaaaaaaattatagaaaaa 43735339

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||| || |||||
Sbjct: 44122631 gccttatcccactagatgagatcggttacatggatca 44122595

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 6448 ttattttgattattataatacataattaaa 6476
 ||||||| ||||||||||||||| |||||||||||
Sbjct: 44493954 ttattttattattataatatataattaaa 44493926

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||||||
Sbjct: 44605859 ctttttttttaaaaaaaaaaaaaa 44605879

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||||||
Sbjct: 45289238 ttttttttttaaaaaaaaaaaaaa 45289258

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||||||
Sbjct: 45518073 ttttttttttaaaaaaaaaaaaaa 45518053

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6264 cttttttttttgttttgtttt 6284
 |||||||||||||||||||||||
Sbjct: 45928767 cttttttttttgttttgtttt 45928747

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Plus

```
Query: 4880      tttttcttttatttttatttt 4900
                |||||
Sbjct: 46300911 tttttcttttatttttatttt 46300931
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 1652      tcccactaggtggggtcggctacat 1676
                |||||
Sbjct: 46320017 tcccactagatggggtcggctacat 46319993
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 47076372 ttttttttaaaaaaaaaaaaaa 47076392
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 48461325 ttttttttaaaaaaaaaaaaaa 48461305
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 4789      aataattaataagtaataat 4808
                |||||
Sbjct: 387032    aataattaataagtaataat 387051
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6058 ataaaaaaaaattaattatt 6077
|||||||
Sbjct: 712109 ataaaaaaaaattaattatt 712128

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6267 ttttttttgtttgttttaa 6286
|||||||
Sbjct: 826353 ttttttttgtttgttttaa 826372

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaattaa 6072
|||||||
Sbjct: 1304770 aaataataaaaaaaaaattaa 1304789

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
|||||||
Sbjct: 1503377 aaaaaaaaaattataaaaaaa 1503358

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6039 agttttttttatccaaataa 6058
|||||||
Sbjct: 1733903 agttttttttatccaaataa 1733922

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 1929104 tttttttttaaaaaaaaaaaaaa 1929085

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5120 attaattggtacaaaattta 5139
 ||||||||||||||||||
Sbjct: 2084985 attaattggtacaaaattta 2084966

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 2140679 tttttttttaaaaaaaaaaaaaa 2140698

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4438 ttcaatttttttttttgtga 4457
 ||||||||||||||||||
Sbjct: 3992448 ttcaatttttttttttgtga 3992429

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5019 ttttaataaattattttatgaataa 5042
 |||||
Sbjct: 4493228 ttttaataaattattttataaataa 4493251

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaaat 5341
 |||||
Sbjct: 4953798 aaaacatatttttgaaaaaaaaaat 4953775

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaa 5571
 |||||
Sbjct: 5087797 ttttttttaaaaaaaaaaagaaacaa 5087774

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 5862782 ttttttttaaaaaaaaaaaaaaa 5862763

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5307 aattaatttgtaaaatatattttt 5330
 |||||
Sbjct: 6092730 aattattttgtaaaatatattttt 6092707

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

```
Query: 6285      aaaattgtttgtatttttattttt 6308
               |||||
Sbjct: 6343897 aaaattgtttgaatttttattttt 6343874
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5546      acttttttttaaaaaaaaaa 5565
               |||||
Sbjct: 6370213 acttttttttaaaaaaaaaa 6370232
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 1286      gatattaaatttatttttttg 1305
               |||||
Sbjct: 7117624 gatattaaatttatttttttg 7117643
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
               |||||
Sbjct: 7645506 ttttttttaaaaaaaaaaaaaa 7645525
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 4002      ttcacataatttgtccaatt 4021
               |||||
Sbjct: 8069704 ttcacataatttgtccaatt 8069685
```


Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 8453557 tttttttttaaaaaaaaaaaaaa 8453538

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6140 tttcttaattacatttttttt 6159
 ||||||||||||||||||
Sbjct: 9055005 tttcttaattacatttttttt 9055024

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5555 taaaaaaaaaaaaaacaagta 5574
 ||||||||||||||||||
Sbjct: 9160765 taaaaaaaaaaaaaacaagta 9160784

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6065 aaaattaattatttacccaa 6084
 ||||||||||||||||||
Sbjct: 11712246 aaaattaattatttacccaa 11712227

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4799 aagtaataattttttatcaa 4818
 ||||||||||||||||||
Sbjct: 13761590 aagtaataattttttatcaa 13761571

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5427 aagaaacaagtaataaaaaa 5446
 ||||||||||||||||||
Sbjct: 15950311 aagaaacaagtaataaaaaa 15950292

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6271 ttttgttttgttttaaaatt 6290
 ||||||||||||||||||
Sbjct: 16882967 ttttgttttgttttaaaatt 16882948

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtatta 5232
 |||| |||||||||||||||| || ||||
Sbjct: 17378323 attatttattttataacataatttatttatta 17378292

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 17470482 ttttttttaaaaaaaaaaaaa 17470501

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5318 aaaatatatTTTTGAAAAAAAAATTATAAAAA 5349
 ||||| |||||||||||||||| |||| |||||
Sbjct: 18048991 aaaatgtatTTTTGAAAAAATATTAAAAAA 18049022

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actTTTTTTTAAAAAAAAAA 5565
 |||||||||||||||||||
Sbjct: 21382163 actTTTTTTTAAAAAAAAAA 21382144

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6261 ttgctTTTTTTTTTgttttg 6280
 |||||||||||||||||||
Sbjct: 21779487 ttgctTTTTTTTTTgttttg 21779468

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaATTATAAAAAAA 5351
 |||||||||||||||||||
Sbjct: 22059996 aaaaaaaaaATTATAAAAAAA 22060015

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5329 ttgaaaaaaaaATTATAAAAAAAT 5352
 ||||| |||||||||||||||||
Sbjct: 22104760 ttgaaacaaaaATTATAAAAAAAT 22104737

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5567
 |||||
Sbjct: 25209565 tttttttttaaaaaaaaaa 25209584

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5328 ttgaaaaaaaaattataaaaaa 5351
 ||||| |||||
Sbjct: 25241631 ttgacaaaaaaaaattataaaaaa 25241608

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6482 acttaattgaaattaaaaaa 6501
 ||||| |||||
Sbjct: 28138272 acttaattgaaattaaaaaa 28138291

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5564
 |||||
Sbjct: 28534518 aacttttttttaaaaaaaaaa 28534499

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5331 gaaaaaaaaattataaaaaa 5350
 |||||
Sbjct: 31750612 gaaaaaaaaattataaaaaa 31750593

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 31909600 tttttttttaaaaaaaaaaaaaa 31909581

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5556 aaaaaaaaaaaaaacaagtaa 5575
 ||||||||||||||||||
Sbjct: 32159394 aaaaaaaaaaaaaacaagtaa 32159375

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6039 agttttttttatccaaataa 6058
 ||||||||||||||||||
Sbjct: 34321535 agttttttttatccaaataa 34321516

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 34420532 tttttttaaaaaaaaaaaaaa 34420551

Score = 40.1 bits (20), Expect = 6.4
Identities = 38/44 (86%)
Strand = Plus / Minus

Query: 7459 ctacaaatcattaaataataacaattacaatcaaataatttgggg 7502
 ||||| ||||| ||| ||||| |||||
Sbjct: 36038881 ctacaaataattaaataataaaaatagtaatcaaataaattgggg 36038838

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 ||||| ||||| |||||
Sbjct: 37770010 aaattaaaaaatatatattt 37769991

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5564
 ||||| ||||| |||||
Sbjct: 38045525 aacttttttttaaaaaaaaaa 38045506

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4883 ttcttttatttttattttgt 4902
 ||||| ||||| |||||
Sbjct: 38050742 ttcttttatttttattttgt 38050723

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6045 ttttatccaaataataaaaa 6064
 ||||| ||||| |||||
Sbjct: 38088376 ttttatccaaataataaaaa 38088357

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                ||||||||||||||||
Sbjct: 38450574 tttttttttaaaaaaaaaaaaaa 38450555
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5545      aactttttttttaaaaaaaaaaaaaa 5568
                |||||||||||| ||||||||||||
Sbjct: 38677302 aactttttttttaaaaaaaaaaaaaa 38677279
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6955      tgtgcatttttttgaaatttg 6974
                ||||||||||||||||||
Sbjct: 39049230 tgtgcatttttttgaaatttg 39049249
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                ||||||||||||||||
Sbjct: 40414310 tttttttttaaaaaaaaaaaaaa 40414329
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

```
Query: 5541      attgaactttttttttaaaaaaaaaaaaaa 5568
                ||||| ||||||| ||||||||||||
Sbjct: 40884519 attgaagtttttttttaaaaaaaaaaaaaa 40884546
```


Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 4877 aagtttttcttttatttttatttt 4900
 ||||| ||||||||||||||||
Sbjct: 42193365 aagtttatcttttatttttatttt 42193388

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaattata 5345
 ||||| ||||| ||||||||||||||||
Sbjct: 43008702 aaaatatattttttaaaaaaaaaattata 43008675

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgtttggtttt 6284
 ||||||||||||||||||||
Sbjct: 43094439 ttttttttttgtttggtttt 43094458

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaa 5566
 ||||||||||||||||||||
Sbjct: 43639487 cttttttttaaaaaaaaaa 43639468

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6596 aaataatacaacaaaaatttttaa 6619
 |||||||||||||||| ||||||||
Sbjct: 44006014 aaataatacaacaacatttttaa 44006037

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 44397422 aaaaaaaaaattataaaaaaa 44397441

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaa 5566
 |||||
Sbjct: 44636122 cttttttttaaaaaaaaaaa 44636103

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaa 5567
 |||||
Sbjct: 44649466 tttttttttaaaaaaaaaaa 44649447

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6494 ttaaaaaatatatatttaac 6513
 |||||
Sbjct: 45354144 ttaaaaaatatatatttaac 45354125

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 45518058 tttttttttaaaaaaaaaaaaaa 45518077

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||||
Sbjct: 45891802 aaattaaaaaatatatattt 45891783

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6292 tttgtatttttatttttttt 6311
 |||||||
Sbjct: 46572530 tttgtatttttatttttttt 46572549

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 46592265 tttttttttaaaaaaaaaaaaaa 46592284

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5334 aaaaaaattataaaaaaatg 5353
 |||||||
Sbjct: 46702333 aaaaaaattataaaaaaatg 46702314

Score = 40.1 bits (20), Expect = 6.4
Identities = 68/84 (80%)

Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtggtatatttagtgaaattaattattttataacataa
5221

 ||||| ||||||| ||||||||||||| || | ||| | ||||| ||||||||||| |||
Sbjct: 47025745 taaatttacattaaaaatTTtagtggtcatgtatagcaacattattttattttataatgtaa
47025804

Query: 5222 ttgatgtattagttcagttggtta 5245

 ||| | ||||| ||| |||||||
Sbjct: 47025805 ttggttcattagctcaattggtta 47025828

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571

 ||||||| |||||||||||||||||
Sbjct: 47076373 ttttttttaaaaaaaaaaaaaaaca 47076396

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6582 aatattttaaatTTtgaaataa 6601

 |||||||||||||||||||
Sbjct: 47441404 aatattttaaatTTtgaaataa 47441385

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3893 aaaaatgatttttttttaaat 3912

 |||||||||||||||||||
Sbjct: 48226125 aaaaatgatttttttttaaat 48226144

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggctcggctacatggat 1680
 |||||
Sbjct: 48330626 ttatcccactaggtggggctcggctacatggat 48330595

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 48454787 ttttttttaaaaaaaaaaaaaa 48454768

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 48870912 ttttttttttgttttgtttt 48870931

>[gb|CM00835.1](#) Glycine max chromosome 2, whole genome shotgun sequence
Length = 51656713

Score = 1600 bits (807), Expect = 0.0
Identities = 813/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 124368 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataaagtctta
124309

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||
Sbjct: 124308 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
124249

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 |||||

Sbjct: 124248 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
124189

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 124188 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
124129

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 124128 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
124069

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 124068 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
124009

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 124008 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
123949

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 123948 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
123889

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 123888 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
123829

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 123828 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
123769

Query: 2243 ataatatgggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||

Sbjct: 123768 ataatatgggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
123709

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 123708 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagaactcgt
123649

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 123648 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
123589

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 123588 tctgcaaaaagcatgcatctcggcgctatctcttg 123554

Score = 1592 bits (803), Expect = 0.0

Identities = 812/815 (99%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 36929280 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
36929339

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 36929340 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
36929399

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 36929400 atagtctttttgggtcttcctctgcctcgaattgtttgtattctctccatctgggtctact
36929459

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 36929460 ctctcactacagagtctatcgggtcttctctctacatgcccaaaccacctaagtctattt
36929519

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 36929520 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
36929579

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 36929580 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
36929639

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 36929640 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
36929699

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 36929700 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
36929759

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 36929760 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
36929819

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 36929820 tcaatttcccatcatcctgtattatagaccaagatatattaaccgtgtgacttgaggg
36929879

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 36929880 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
36929939

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 36929940 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
36929999

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 36930000 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
36930059

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 36930060 tctgcaaaaagcatgcatctcggcgctatctcttg 36930094

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 51185498 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
51185557

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 51185558 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
51185617

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 51185618 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
51185677

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 51185678 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
51185737

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 51185738 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
51185797

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||

Sbjct: 51185798 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
51185857

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 51185858 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
51185917

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
2122

|||||
Sbjct: 51185918 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
51185977

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 51185978 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
51186037

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

||| |||||
Sbjct: 51186038 tcactttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
51186097

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 51186098 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
51186157

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 51186158 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
51186217

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 51186218 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
51186277

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 51186278 tctgcaaaaagcatgcatctcggcgctatctcttg 51186312

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 12215734 aacgccttatcccattaggtggggtcggctacatggatcaacttccgccataatgttcta
12215793

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 12215794 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
12215853

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 12215854 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctgggtctact
12215913

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 12215914 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
12215973

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
|||||
Sbjct: 12215974 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
12216033

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 12216034 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12216093

Query: 2003 actttattctcatggtgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 12216094 actttattctcatggtgggtcttgactgccaacattctgttccgtacaaaatcgccgggt
12216153

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 12216154 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
12216213

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 12216214 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
12216273

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 12216274 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
12216333

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 12216334 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
12216393

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 12216394 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
12216453

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 12216454 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
12216513

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 12216514 tctgcaaaaagcatgcatctcggcgctatctcttg 12216548

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 15588874 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
15588815

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 15588814 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
15588755

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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Sbjct: 15588754 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
15588695

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 15588694 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
15588635

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
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Sbjct: 15588634 tccaccatcttctctacaataggcgctactccaaccctctctctaataagctttgtttcta
15588575

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
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Sbjct: 15588514 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
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Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 15588454 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
15588395

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 15588394 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatccct
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Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 15588334 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
15588275

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 15588274 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
15588215

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 15588214 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
15588155

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 15588154 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
15588095

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 36544395 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
36544454

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 36544455 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
36544514

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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Sbjct: 36544515 atagtctttttggatcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
36544574

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

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Sbjct: 36544575 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
36544634

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 36544635 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
36544694

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 36544695 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
36544754

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 36544755 actttattctcatgttggctcttgaccgccaacattctgttctgtacaaaatcgccggt
36544814

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 36544815 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
36544874

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 36544875 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
36544934

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 36544935 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
36544994

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 36544995 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
36545054

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 36545055 cattccatataactccgatttgcttctgcttaggcgaaagccatgtatttctagagctcgt
36545114

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 36545115 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
36545174

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 36545175 tctgcaaaaagcatgcatctcggcgctatctcttg 36545209

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 362872 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
362813

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 362812 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
362753

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 362752 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctgggtctact
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Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
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Sbjct: 362692 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
362633

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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362573

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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362513

Query: 2003 actttattctcatgttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 362512 actttattctcatgttggtctcttgaccgccccaacattctgttcggtacaaaatcggtcggt
362453

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 362452 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
362393

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 362392 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
362333

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 362332 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
362273

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 362272 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
362213

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 362212 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
362153

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 362152 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
362093

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 3016442 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
3016501

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 3016502 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
3016561

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 3016562 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
3016621

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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3016681

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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3016741

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 3016802 actttattctcatgttggctcttgaccgcccagcattctgttccgtacaaaatcgccggt
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Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
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3016921

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2182

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3016981

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 3016982 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
3017041

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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3017101

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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3017161

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 3017162 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
3017221

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 3017222 tctgcaaaaagcatgcatctcggcgctatctcttg 3017256

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 17061353 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17061412

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 17061413 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
17061472

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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17061532

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1882
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17061592

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 17061593 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
17061652

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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17061712

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 17061713 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
 17061772

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
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 Sbjct: 17061773 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 17061832

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

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 17061892

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
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 Sbjct: 17061893 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 17061952

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
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 17062012

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 17062072

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 17062073 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 17062132

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1576 bits (795), Expect = 0.0
 Identities = 810/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

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38078689

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 38078690 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
38078749

Query: 1763 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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38078809

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
1882

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Sbjct: 38078810 ctccctcactacagagtctatcggtcttctctctacatgcccaaaccacctaaggtctatatt
38078869

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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38078929

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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38078989

Query: 2003 actttattctcatggttggtcttggaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 38078990 actttattctcatggttggtcttggaccgccaacattctgttccgtacaaaatcgccggt
38079049

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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38079109

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 38079110 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
38079169

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 38079170 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
38079229

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 38079230 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
38079289

Query: 2303 cattccatataactccgatttgccttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 38079290 cattccatataactccgatttgccttctgcttaggcgaaagccatgtgtttctagagctcgt
38079349

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 38079350 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
38079409

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 38079410 tctgcaaaaagcatgcatctcggcgctatctcttg 38079444

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 43249138 aacgtcttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
43249079

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 43249078 tcaagtaccatactttctatccaaaccattaatttcgagatcctttttgataacctctctt
43249019

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 43249018 atagtctttttgggtcttcctctgcctcgaattgtttgttttctctccatctgggtctact
43248959

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 43248958 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
43248899

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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43248839

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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2122

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43248659

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
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Sbjct: 43248598 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
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2302

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Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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43248419

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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43248359

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

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1702

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Sbjct: 2571855 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
2571796

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 2571795 tcaagtaccataacttctatccaaaccactaatttcgagatcctttttataacctctctt
2571736

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
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Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
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Sbjct: 2571615 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
2571556

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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2062

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Sbjct: 2571495 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
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2122

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Sbjct: 2571435 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2571376

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 2571375 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2571316

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 2571315 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2571256

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 2571255 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2571196

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 2571195 cattccatataactccgatttgcttctgcttaggcgaaagtcagtgtgtttctagagctcgt
2571136

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 2571135 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
2571076

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 2571075 tctgcaaaaagcatgcatctcggcgctatctcttg 2571041

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 13361785 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
13361726

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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13361666

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 13361665 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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Sbjct: 13361605 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
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Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
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Sbjct: 13361545 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
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Query: 1943 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgctacacct
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13361426

Query: 2003 actttattctcatggtggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 13361425 actttattctcatggtggctcttgaccgccaacattttgttccgtacaaaatcgccggt
13361366

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 13361365 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
13361306

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 13361305 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
13361246

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
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Sbjct: 13361245 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
13361186

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 13361185 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
13361126

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 13361125 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
13361066

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 13361065 ctccaagttttccaacctctcattcaattcctcctcgactctccaagaaggactatgtca
13361006

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 13361005 tctgcaaaaagcatgcatctcggcgctatctcttg 13360971

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
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Sbjct: 25438774 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
25438715

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 25438714 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
25438655

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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Sbjct: 25438654 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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25438535

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
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25438475

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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2062

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Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 25438354 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
25438295

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 25438294 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
25438235

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 25438234 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
25438175

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 25438174 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
25438115

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 25438114 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
25438055

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 25438054 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
25437995

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
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Sbjct: 45583386 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
45583445

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 45583446 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
45583505

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 45583506 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

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Sbjct: 45583566 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
45583625

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 45583626 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
45583685

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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2062

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Sbjct: 45583746 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
45583805

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 45583806 cttaccgcagtcgcgataaaaactttccatttagcttgatcggtacctttgcatcacataac
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Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182

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 45583925

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

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 Sbjct: 45583926 tcaatttccccatcatcctgtattacggatccaagatatattaaaccgtgtgacttgaggg
 45583985

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaactta
 2302

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 Sbjct: 45583986 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaactta
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Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 45584046 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 45584105

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 45584106 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 45584165

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1568 bits (791), Expect = 0.0
 Identities = 809/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 50234616

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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50234556

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 50234495 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctattt
50234436

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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50234376

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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50234316

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 50234315 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
50234256

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 50234255 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
50234196

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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50234136

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242
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Sbjct: 50234135 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
50234076

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302
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Sbjct: 50234075 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
50234016

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362
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50233956

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
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50233896

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

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1702
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12181

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 12182 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
12241

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 12242 atagtctttttgggtcttcctctgcctcgaatagtttgtcttctctccatctgggtctact
12301

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

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Sbjct: 12302 ctccctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctatatt
12361

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 12362 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
12421

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 12422 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12481

Query: 2003 actttattctcatgttggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 12482 actttattctcatgttggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
12541

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 12542 cttaccgtagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
12601

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 12602 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
12661

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 12662 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
12721

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 12722 ataatatggtctcctatccccacctctgagttagaaaccctccttcttttgttgaactta
 12781

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

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 Sbjct: 12782 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagttcgt
 12841

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 12842 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 12901

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 12902 tctgcaaaaagcatgcatctcggcgctatctcttg 12936

Score = 1552 bits (783), Expect = 0.0
 Identities = 807/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 43749901 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 43749960

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 43749961 tcaagtaccatacttctatccaaatcattaaattcgagatcctttttgataacctctctt
 43750020

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
 1822

|||||
 Sbjct: 43750021 atagtctttttgggtcttctctgctcgaatagttgtcttctctccatctggtctact
 43750080

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccacacctaagtctattt
 1882

|||||
 Sbjct: 43750081 ctctcactacagagtctaccgggtcttctctctacatgtccaaacacctaagtctattt
 43750140

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 43750141 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctg
43750200

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 43750201 attttatcctgtcgagtcttaccacacatccactgcaacatcctcatctccgctacacct
43750260

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 43750261 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
43750320

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 43750321 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
43750380

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 43750381 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
43750440

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 43750441 tcaatttccccatcattctgtattacagaccaagatatattaaccgtgtgacttgaggg
43750500

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 43750501 ataatatggtctcctattttcacctctgagttagaaaccctcattcttttggtgaactta
43750560

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 43750561 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
43750620

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 43750621 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
43750680

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 43750681 tctgcaaaaagcatgcatctcggcgctatctcttg 43750715

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 29027002 aacgccttatccactaggtgaggtcggctacatggatcaacttccgccataatattcta
29027061

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 29027062 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
29027121

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 29027122 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
29027181

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 29027182 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
29027241

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 29027242 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
29027301

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 29027302 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
29027361

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 29027362 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
29027421

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
2122

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Sbjct: 29027422 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
29027481

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 29027482 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
29027541

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 29027542 tcaatttgtccatcatcctgtattacagatccaagatatattaaaccgtgtgacttgaggg
29027601

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 29027602 ataatatagtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
29027661

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 29027662 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
29027721

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 29027722 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29027781

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 29027782 tctgcaaaaagcatgcatctcggcgctatctcttg 29027816

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcgcggtacatggatcaacttccgccataatgttcta
1702
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Sbjct: 43243707 aacgccttatcccactaggtgggatcggctacatggatcaacttccgccataatgttcta
43243766

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 43243767 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttgataacctctctt
43243826

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 43243827 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
43243886

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
1882
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Sbjct: 43243887 ctctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagtcctattt
43243946

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
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Sbjct: 43243947 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
43244006

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 43244007 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
43244066

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 43244067 actttattctcatgttgggtctttgaccacccaacattctgttccgtacaaaatcgccgggt
43244126

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 43244127 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 43244186

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

|| |||||
 Sbjct: 43244187 actcccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccg
 43244246

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 43244247 tcaatttccccatcatcctgtattacagatccaagatatattaaaccgtgtgacttgaggg
 43244306

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 43244307 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 43244366

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 43244367 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgc
 43244426

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 43244427 ctccaagtttccaacctctcattcagctcctccctcgactctccaaggaggactatgtca
 43244486

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 43244487 tctgcaaaaagcatgcatctcggcgctatctcttg 43244521

Score = 1521 bits (767), Expect = 0.0
 Identities = 803/815 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||

Query: 2123 accccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

Sbjct: 302567 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacgtccct
302626

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 302627 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
302686

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 302687 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
302746

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 302747 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
302806

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 302807 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
302866

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 302867 tctgcaaaaagcatgcatctcggcgctatctcttg 302901

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 18774519 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
18774460

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 18774459 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
18774400

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 18774399 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
18774340

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 18774339 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
18774280

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 18774279 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
18774220

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 18774219 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
18774160

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 18774159 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
18774100

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 18774099 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18774040

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 18774039 acccccgatgcttttctccatttcatccattctgcttcaatgcgatgattcacatccct
18773980

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 18773979 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
18773920

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 18773919 ataatatggtctcctattttcacctctgagttagataccctccttcttttgttgaactta
18773860

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 18773859 cattccatataactccgatttgcttctgttttaggcgaaagccatgtgtttctagggctcgt
18773800

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18773799 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18773740

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

||| |||||
Sbjct: 18773739 tcttcaaaaaggcatgcatctcggcgctatctcttg 18773705

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 29209745 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
29209804

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 29209805 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
29209864

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 29209865 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
29209924

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagttctat
1882

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Sbjct: 29209925 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
29209984

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 29209985 tccaccatcttctctacattaggcgctactccaaccctctctctaataagctttgtttcta
29210044

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 29210045 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29210104

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 29210105 actttagtctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
29210164

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 29210165 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
29210224

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 29210225 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
29210284

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

|||||
Sbjct: 29210285 tcaatttctccatcatcctgtattacagacccaagatatattaaccatgtgacttgaggg
29210344

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 29210345 ataatatggtctcctattttcacctctgagttagataccacactacttttgttgaactta
29210404

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 29210405 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
29210464

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 29210465 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29210524

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||| |||||||

Sbjct: 29210525 tctacaaaaagcatgcatctcggcgctatctcttg 29210559

Score = 1299 bits (655), Expect = 0.0
Identities = 677/683 (99%), Gaps = 1/683 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 47240653 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
47240594

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 47240593 tcaagtaccatacttctatccaaactattaatttcgagatcctttttataacctctctt
47240534

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 47240533 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
47240474

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
1882

|||||
Sbjct: 47240473 ctctcactacagagtctaccggttttctctctacatgcccacacctaaggtctatatt
47240414

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 47240413 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
47240354

Query: 1943 attttatcctgctcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002
 ||||||||||||||||||
 Sbjct: 47240353 attttatcctgctcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
 47240294

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtac-aaaatcgccgg
 2061
 ||||||||||||||||||
 Sbjct: 47240293 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaaatcgccgg
 47240234

Query: 2062 tcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
 2121
 ||||||||||||||||||
 Sbjct: 47240233 tcttaccgcagtcgataaaaactttcccttttagcttgatcggtatctttgcatcacataa
 47240174

Query: 2122 ccccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccc
 2181
 ||||||||||||||||||
 Sbjct: 47240173 ccccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccc
 47240114

Query: 2182 ttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
 2241
 ||||||||||||||||||
 Sbjct: 47240113 ttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
 47240054

Query: 2242 gataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactt
 2301
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 Sbjct: 47240053 gataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactt
 47239994

Query: 2302 acattccatataactccgatttgc 2324
 ||||||||||||||
 Sbjct: 47239993 acattccatataactccgatttgc 47239971

Score = 1199 bits (605), Expect = 0.0
 Identities = 654/669 (97%), Gaps = 1/669 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
Sbjct: 12281714 aacgccttatcccactaggtggggtcggctacatggatcaacttcgccataatgttcta
12281655

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 12281654 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
12281595

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 12281594 atagtctttttgggtcttctctgcctcaaattgtttgccttctctccatctgggtctact
12281535

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
1882

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Sbjct: 12281534 ctcttaactaaagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
12281475

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 12281474 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
12281415

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 12281414 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12281355

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 12281354 actttagtctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
12281295

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 12281294 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataat
12281235

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 40038588 aaatcgccggtcttaccgcagtcgcgataaaactttccctttagcttgatcggtacctttg
40038647

Query: 2112 catcacataacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgat
2171
|||||
Sbjct: 40038648 catcacataacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgat
40038707

Query: 2172 tcacatccccttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtg
2231
|||||
Sbjct: 40038708 tcacatccccttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtg
40038767

Query: 2232 tgacttgagggataaatatggtctcctattttcacctctgagttagaaaccctccttcttt
2291
|||||
Sbjct: 40038768 tgacttgagggataaatatggtctcctattttcacctctgagttagaaaccctccttcttt
40038827

Query: 2292 tgttgaacttacattccatatactccgatttgcttctgcttaggcgaaagccatgtgttt
2351
|||||
Sbjct: 40038828 tgttgaacttacattctatatactccgatttgcttctgcttaggcgaaagccatgtgttt
40038887

Query: 2352 ctagagctcgtctccaagtttccaacctctcattcaactcctccctcgactctccaagga
2411
|||||
Sbjct: 40038888 ctagagctcgtctccaagtttccaacctctcattcaactcctccctcgactctccaagga
40038947

Query: 2412 ggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 40038948 ggactacgtcatctgcaaaaagcatgcatctcggcgctatctcttg 40038993

Score = 987 bits (498), Expect = 0.0
Identities = 501/502 (99%)
Strand = Plus / Minus

Query: 1956 gagtcttaccacacatccaccgcaacatcctcatctccgctacacctactttatttctcat
2015
|||||
Sbjct: 40037766 gagtcttaccacacatccaccgcaacatcctcatctccgctacacctactttatttctcat
40037707

Query: 2016 gttggctcttgaccgcccacattctgttccgtacaaaatcgccggtcttaccgcagtc
2075

Sbjct: 40037706 |||||
 40037647 gttggctcttgaccgcccacattctgttccgtacaaaatcgccggtcttaccgcagtcc

Query: 2076 gataaaaactttcccttttagcttgatcggtacctttgcatcacataacacccccgatgctt
 2135

Sbjct: 40037646 |||||
 40037587 gataaaaactttcccttttagcttgatcggtacctttgcatcacataacacccccgatgctt

Query: 2136 ttctccattttcatccatcctgcttgaatgcgatgattcacatccccttcaatttccccat
 2195

Sbjct: 40037586 |||||
 40037527 ttctccattttcatccatcctgcttgaatgcgatgattcacatccccttcaatttccccat

Query: 2196 catcctgtattacagacccaagatatttaaaccgtgtgacttgagggataatatggtctc
 2255

Sbjct: 40037526 |||||
 40037467 catcctgtattacagacccaagatatttaaaccgtgtgacttgagggataatatggtctc

Query: 2256 ctatttttcacctctgagttagaaaccctccttcttttggtgaacttacattccatatact
 2315

Sbjct: 40037466 |||||
 40037407 ctatttttcacctctgagttagaaaccctccttcttttggtgaacttacattctatatact

Query: 2316 ccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttcca
 2375

Sbjct: 40037406 |||||
 40037347 ccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttcca

Query: 2376 acctctcattcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaagca
 2435

Sbjct: 40037346 |||||
 40037287 acctctcattcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaagca

Query: 2436 tgcattctcggcgctatctcttg 2457
 Sbjct: 40037286 |||||
 tgcattctcggcgctatctcttg 40037265

Score = 864 bits (436), Expect = 0.0
 Identities = 451/456 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 45027381 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
45027440

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 45027441 ttaagtaccatacttctatccaaatcattaatttcgatatcctttttgataacctctctt
45027500

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 45027501 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctggtctact
45027560

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcatttt
1882

|||||
Sbjct: 45027561 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcatttt
45027620

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 45027621 tccaccatcttctctacaataggcgctactccaaccctctctctaataacttcgtttcta
45027680

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 45027681 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45027740

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 45027741 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
45027800

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttg 2098

|||||
Sbjct: 45027801 cttaccgcagtcgataaaaactttcccttttagcttg 45027836

Score = 854 bits (431), Expect = 0.0
Identities = 452/459 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 43858034 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
43858093

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 43858094 tcaagtaccatacttctatccaaatcattaagttcgaaatcctttttgataacctctctt
43858153

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 43858154 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
43858213

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882
|||||
Sbjct: 43858214 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
43858273

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
|||||
Sbjct: 43858274 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
43858333

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 43858334 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctactcct
43858393

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 43858394 actttatttctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgctcgggt
43858453

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatc 2101
|||||

Sbjct: 43858454 cttaccgcagtcgcgataaaactttcccttttagcttgatc 43858492

Score = 753 bits (380), Expect = 0.0
 Identities = 404/411 (98%), Gaps = 2/411 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 4809609 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 4809668

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 4809669 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttgataacctctctt
 4809728

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 4809729 atagtctttttgggttttctc--cctcgaattatttgtcttctctccatctgggtctact
 4809786

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 4809787 ctctcactacacagtctaccggtcttctctctacatgcccaaaccacttaagtctattt
 4809846

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
 1942

|||||
 Sbjct: 4809847 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
 4809906

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 4809907 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 4809966

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaa 2053

|||||
 Sbjct: 4809967 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaa 4810017

Score = 644 bits (325), Expect = 0.0
Identities = 328/329 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 40041665 aacgccttatcccactaggtggggtcggctacatggatcaagttccgccataatgttcta
40041606

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 40041605 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
40041546

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 40041545 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40041486

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 40041485 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
40041426

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 40041425 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
40041366

Query: 1943 attttatcctgtcgagtcttaccacacat 1971

|||||
Sbjct: 40041365 attttatcctgtcgagtcttaccacacat 40041337

Score = 611 bits (308), Expect = e-172
Identities = 326/332 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 11365369 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 11365428

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 11365429 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 11365488

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 11365489 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 11365548

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 1882

|||||
 Sbjct: 11365549 ctctcactatagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 11365608

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

|||||
 Sbjct: 11365609 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 11365668

Query: 1943 attttatcctgtcgagtcttaccacacatcca 1974
 |||||

Sbjct: 11365669 attttatcctgtcgagtcttaccacacatcca 11365700

Score = 591 bits (298), Expect = e-166
 Identities = 301/302 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 48773142 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 48773201

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 48773202 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
 48773261

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 48773262 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
48773321

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882
|||||
Sbjct: 48773322 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
48773381

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
|||||
Sbjct: 48773382 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
48773441

Query: 1943 at 1944
||
Sbjct: 48773442 at 48773443

Score = 589 bits (297), Expect = e-165
Identities = 309/313 (98%)
Strand = Plus / Plus

Query: 2145 tcatccatcctgcttgaatgcgatgattcacatccccttcaatttcccatcatcctgta
2204
|||||
Sbjct: 43858491 tcatccatcctgcttgaatgcgatgattcacatccccttcaatttctccatcatcctgta
43858550

Query: 2205 ttacagacccaagatatatttaaaccgtgtgacttgagggataaatatgggtctcctattttca
2264
|||||
Sbjct: 43858551 ttacagacccaagatatatttaaaccgtgtgacttgagggataaatatgggtctcctattttca
43858610

Query: 2265 cctctgagttagaaaccctccttcttttgttgaacttacattccatataactccgatttgc
2324
|||||
Sbjct: 43858611 cctctgagttagaaaccctccttcttttgttgaacttacattccatataactccgatttgc
43858670

Query: 2325 ttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctcat
2384

Sbjct: 12817240 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttct
12817298

Score = 488 bits (246), Expect = e-135
 Identities = 267/274 (97%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 24306873 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 24306932

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
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 Sbjct: 24306933 tccagtaccatacttctatccaaatcattaagttcgagatccttctcgataacctctctt
 24306992

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
 |||||||||||||||||||||| |||||||||||| ||||||||||||||||||||
 Sbjct: 24306993 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
 24307052

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 1882
 |||||||||||||||||||||| |||||||||||| ||||||||||||||||||||
 Sbjct: 24307053 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 24307112

Query: 1883 tccaccatcttctctacaataggcgctactccaa 1916
 |||||||||||||||||||||| ||
 Sbjct: 24307113 tccaccatcttctctacaataggcgctactccaa 24307146

Score = 432 bits (218), Expect = e-118
 Identities = 233/238 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 |||||||||||||||||||||| |||||||||||| ||||||||||||||||||||
 Sbjct: 48182949 aacgccttatcccactaggtggggctcggctacatggatcaacttccaccataatgttcta
 48182890

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 48182889 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 48182830

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 1822

|||||
 Sbjct: 48182829 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctggtctact
 48182770

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctat
 1880

|||||
 Sbjct: 48182769 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctat
 48182712

Score = 391 bits (197), Expect = e-105
 Identities = 212/217 (97%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgcataatgttcta
 1702

|||||
 Sbjct: 32398279 aacgccttatccactagatggggcggctacatggatcaacttccgcataatgttcta
 32398338

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 32398339 tcaagtaccatacttttatccaaaccattaatttcgagatcctttttataacctctctt
 32398398

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 1822

|||||
 Sbjct: 32398399 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 32398458

Query: 1823 ctctcactacagagtctaccggtcttctctctacat 1859

|||||
 Sbjct: 32398459 ctctcactacagaatctaccggtcttctctccacat 32398495

Score = 353 bits (178), Expect = 3e-94

Identities = 184/186 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 38873617 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
38873676

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 38873677 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
38873736

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 38873737 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
38873796

Query: 1823 ctctctc 1828

|||||
Sbjct: 38873797 ctctctc 38873802

Score = 248 bits (125), Expect = 1e-62
Identities = 238/274 (86%), Gaps = 5/274 (1%)
Strand = Plus / Plus

Query: 6393 tgcataatatttatgttttatcatttttt--aagagttgaaatcctttgtatttttatattta
6450

|||||
Sbjct: 11449169 tgcataatatttggtgttttatcatttttttcaacagttgaaatttttgtatttttatattta
11449228

Query: 6451 tttgattattataataacataattaacaacaacttaattgaaattaaaaaatatatattt
6510

|||||
Sbjct: 11449229 tttgattaataaaaatacataattaatcaacaacttaattaaaataaaaaaac---atattt
11449285

Query: 6511 aactgacaagttgacttgaactaaaatatattaaattacaaaatagatatgaaattacaaa
6570

|||
Sbjct: 11449286 aaccaaaaaattgaattaaattaaaatatattaaattacaaaatagatatataaaattataaa
11449345

Query: 6571 caatagaacaaaatattttaaatgtgaataataacaacaaaaattttaaaatacaacaat
6630

Sbjct: 11449346 tagtagaacaaaatattttaaatTTAAaataatactaccaaattttttaaatacaaacat
11449405

Query: 6631 atggcataaaaattaatgttggttgccctgagccta 6664

Sbjct: 11449406 atgacataaattaaatgttatttgcttgagccta 11449439

Score = 222 bits (112), Expect = 8e-55
Identities = 330/397 (83%), Gaps = 8/397 (2%)
Strand = Plus / Minus

Query: 6896 tatgtagttcctatactcatggtgagcatgcttataaaca---acaacatgagaacaaaa
6952

Sbjct: 2276886 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
2276827 tatgtagttcttatacttatggatgaacatgcttataagcagcaacaacatgagaataaga

Query: 6953 catgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaa
7012

Sbjct: 2276826 aatatgcattttttggaatttgccacagtcacaccacctttcatccagtctgactgtaaa
2276767

Query: 7013 atttctcactag-ttgaatctctctccagttaattgtctcctagactaagaattgtat
7071

Sbjct: 2276766 attt-tcaatgggttgaacctctctctcgagttaattatctcctggactaagaaccgtgt
2276708

Query: 7072 gtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcat
7131

Sbjct: 2276707 gccacatcgatcgaactcaagaacagtgtgagagttttcttttctttgtgcgtcttccat
2276648

Query: 7132 agccttgtttaatacttttgtataaaacttcaccaaagttaatcactcttgcgacttctct
7191

Sbjct: 2276647 aaccttgtttagtacttgatatataaacttggtcaaataataatcattggtgtgacttctct
2276588

Query: 7192 ccccttttggttgaacaatgcattacacctagtataggttgattttaccaacacac--at
7249

|||||
Sbjct: 2276587 ccctctttggttgaataatgcattacaccttatataggttgattttaccagcacacttat
2276528

Query: 7250 tgccagattttgtggtttcttgagtaccaaattaatt 7286
|| ||||| || ||||| || ||||| |||||
Sbjct: 2276527 tggcagagttcgtggttt-tttagtaccgaattaatt 2276492

Score = 214 bits (108), Expect = 2e-52
Identities = 205/236 (86%), Gaps = 1/236 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 47898581 aaaattaattgccacaaaatttattacctaatttcatgcgcattaaatatacattaaa
47898640

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||| ||||| || || |||||
Sbjct: 47898641 aatttttaattggttatatatagcgacattaattattttataacataattgggtttattagctt
47898700

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
||||| || || || |||||
Sbjct: 47898701 agttgggttaaaacctcatgctaataatgtgaaagtcataactttgattcttggttgaacc
47898760

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaat 5352
|||||
Sbjct: 47898761 attaatttttaaattaacttgtaaaacatatatttttgaaaaaaaaatt-taaaaaaat
47898815

Score = 212 bits (107), Expect = 8e-52
Identities = 191/219 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 29511503 aaaattaattggttacaaaatttattatgtagatttacatgtgcattaaatatacggttaga
29511444

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236
|||||
Sbjct: 29511443 aatttttagtggttatataacaacattaattatttttataagataattgatttattagcct
29511384

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||||
Sbjct: 29511383 agttggtagagcgttatgtctaataacgcgaaagtcaaaggtttgattcctacatggatc
29511324

Query: 5297 attaatTTTaaattaatttgTaaaatatatTTTtgaaaa 5335
|||||
Sbjct: 29511323 attaatTTTaaattaatttgTaaaatatgctTTTtgaaaa 29511285

Score = 206 bits (104), Expect = 5e-50
Identities = 191/220 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||
Sbjct: 1395738 aaaattaattatcacaaaatttattatataaaatttacctatacattaaatatacattaga
1395679

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236
|||||
Sbjct: 1395678 aatttttagtggttatatatagcgacattaattatttttataacataattgatatatattaattc
1395619

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||||
Sbjct: 1395618 agttggtagaatgtcatgttaataacttgaaagtcacaagtttgaatcctgcatggatc
1395559

Query: 5297 attaatTTTaaattaatttgTaaaatatatTTTtgaaaaa 5336
|||||
Sbjct: 1395558 attaatTTTaaattaattcataaaacatatTTTTTtaaaaa 1395519

Score = 186 bits (94), Expect = 4e-44
Identities = 199/234 (85%)

Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacataaatatacatagga
 5176

|||||
 Sbjct: 6164001 aaaattaattgtcccaaaaatttattatataaaatttgcattgcgcattaaatatacatgaa
 6163942

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 6163941 aatttttagtggttatataatgacattaattattttataacataactaacatattagttt
 6163882

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggtac
 5296

|||||
 Sbjct: 6163881 agttgggttaaaacatcatgctaataacacgaaagtcacagatttgattcctacatgaacc
 6163822

Query: 5297 attaatTTTTaaattaatttGTaaaatatatttttGaaaaaaaaattataaaaaa 5350

|||||
 Sbjct: 6163821 attaatTTTTaaattaatttCGtaaaacatatatttttGaaaaaaaaattataaaaaa 6163768

Score = 176 bits (89), Expect = 4e-41
 Identities = 153/172 (88%), Gaps = 3/172 (1%)
 Strand = Plus / Minus

Query: 6485 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa
 6544

|||||
 Sbjct: 2277321 taattgaaattaaaaaa-acatatTTaaccaacaagttgaattaaactaaaatattttaa
 2277263

Query: 6545 ttacaaaatagatatgaaatt--acaaacaatagaacaaaatattttaaatttgaaataat
 6602

|||||
 Sbjct: 2277262 ttacaaaatagataaaaaattttacaaacaatagaataaaaatattttaaatttgaaacaat
 2277203

Query: 6603 acaacaaaaatttttaaaatacaacaaatatggcataaaattaatgttggttg 6654

|||||
 Sbjct: 2277202 acaacaaaaatttttaaaatacaataatatgaaataaaacttaacgtcgttg 2277151

Score = 176 bits (89), Expect = 4e-41
Identities = 104/109 (95%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaaat
1257
|||||
Sbjct: 3481683 catacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaaat
3481624

Query: 1258 atctgatatgtgggtcattggcccatgatattaaatttattttttga 1306
|||||
Sbjct: 3481623 atctgatatgtggaccattgggttcacacgatattaaatttattttttga 3481575

Score = 174 bits (88), Expect = 2e-40
Identities = 200/236 (84%), Gaps = 6/236 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 13238779 aaaattaattgttacaaaatttattatctaaatttgcgcattaaatat----taaa
13238834

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 13238835 aatttttagtattacatatagtgacattaattattttataatataattgatttattagttt
13238894

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||||
Sbjct: 13238895 agttggtagagtgttgcttaataacacaaaactcgaagggttgattcttgtttgggtc
13238954

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaaattataaaaaaat 5352
|||||
Sbjct: 13238955 attaatttttaaattaatttgtaaa--acatttttgaaaaaaaaaataaaaaaaat
13239008

Score = 172 bits (87), Expect = 7e-40
Identities = 90/91 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 4264957 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
4265016

Query: 1703 tcaagtaccataactttctatccaaaccattaa 1733
|||||
Sbjct: 4265017 tcaagtaccataactttctatccaaatcattaa 4265047

Score = 172 bits (87), Expect = 7e-40
Identities = 193/226 (85%), Gaps = 3/226 (1%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatag
5175
|||||
Sbjct: 13705270 aaaaattaattatcacaaaatttattatataaaatttacctgcatgaatataatag
13705211

Query: 5176 aaattttagtggttatattttagtgaaattaattatttataacataattgatgtattagtt
5235
|||||
Sbjct: 13705210 aaattttagttttatatatagcgacattaattatttataac--aattaatctattagct
13705153

Query: 5236 cagttgggttagagcattatgttaataa-tgtgaaagtcaaaagttcaattcttacttgga
5294
|||||
Sbjct: 13705152 cagttgattagaacattatgctaataactatgaaagtcattaggttcgattcttgcttgga
13705093

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
|||||
Sbjct: 13705092 tcattaattttcaaattaattcataaattatagttttgaaagaaaaa 13705047

Score = 170 bits (86), Expect = 3e-39
Identities = 266/324 (82%), Gaps = 4/324 (1%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
6737
|||||

```
Query: 1703      tcaagtaccatacttctatccaaa 1726
           |||||
Sbjct: 7420183  tcaagtaccatacttctatccaaa 7420160
```

Score = 165 bits (83), Expect = 2e-37
Identities = 225/267 (84%), Gaps = 14/267 (5%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTtATC
4816
 ||||||||||||||||||||| || |||| |||||||||||| | | | | | | | |
Sbjct: 27934975 taactgttaatctttttattggtactgtaagtaataattaatgagcaacaactcttcacc
27935034

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876
 ||||||||||||||||||||| || |||||||| |||||||||||||||| | | |
Sbjct: 27935035 aatatcatagctttgtttagaaaaaa-gaaatttaatagttaatagctaaagaaaccaa
27935093

Query: 4877 aagtttttcttttattttt-----atTTTgttCctattcaattctaattttgtcat
4927
 ||| |||||||||| |||| ||| | |||||||||||||||||| |||| |
Sbjct: 27935094 aagcttttcttttacttttattctctttattctcttcctattcaattctaattctgtctt
27935153

Query: 4928 ttttt-tcactgtctctcgtactt-ctctgtcttctcacctgtttcttcagtttacttga
4985
 |||| ||| |||||||| |||| | |||||||||||||| || |||||||||| ||||
Sbjct: 27935154 cttttctcattgtctctcatacttgctttgtcttctcacctctt-cttcagtttatttga
27935212

Query: 4986 ttattatTTTactTTtgatacattagcc 5012
 |||| | || |||||| ||||||||
Sbjct: 27935213 ttattgtttcactTTgacacattagcc 27935239

Score = 165 bits (83), Expect = 2e-37
Identities = 131/147 (89%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattag
5175
 |||||||||| |||||||||||| | |||||||| |||| | |||||||||| ||||
Sbjct: 50137680 aaaaattaattattacaaaatttattcatgtaaatttacattgtgcattaaatatattag
50137621

Query: 5176 aaatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 |||||||||||||| |||| | |||||||||||||||||||||| |||| |

Sbjct: 50137620 aaatTTtagtgTtatatgtagtgacattaattatTTTataacataattgacctattaggT
50137561

Query: 5236 cagttggTtagagcattatgttaataa 5262
|||||
Sbjct: 50137560 cagttggTtagagcgTcgTgttaataa 50137534

Score = 163 bits (82), Expect = 6e-37
Identities = 197/234 (84%), Gaps = 6/234 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcTgcacaataaatatacattaga
5176
|||||
Sbjct: 13307672 aaaattaattgttacaaaatttattatctaaatttgcTgcgcattaaatat----taaa
13307727

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagTtc
5236
|||||
Sbjct: 13307728 aatTTtagtattacatatagtgacattaattatTTTataatataattgatttattagTtt
13307787

Query: 5237 agttggTtagagcattatgttaataatgtgaaagtcaaaagTtcaattcttacttggtac
5296
|||||
Sbjct: 13307788 agttggTtagagtgTtatgtctaataacacaaaaatcgaaggTttgattcttgTttgggtc
13307847

Query: 5297 attaattTTaaattaatttGTaaaatatatTTTtgaaaaaaaattataaaaaa 5350
|||||
Sbjct: 13307848 attaattTTaaataaatttg--aaaaacattTTtgaaaaaaaataaaaaaa
13307899

Score = 163 bits (82), Expect = 6e-37
Identities = 106/114 (92%)
Strand = Plus / Plus

Query: 1197 tcatacctTTtctcggcctTTTggctaagatcaagtgtagtatctgttcttatcagTttaa
1256
|||||
Sbjct: 26013635 tcatgcctTTtctcggcctTTTggctaagatcaagtgtagtatctgttcttatcagattaa
26013694

Query: 1257 tatctgatatgtgggtcattggcccatgatattaaattttttttgaaggg 1310
|||||
Sbjct: 26013695 tatctgatatgtgggtcaatgattcacatgatattaaattacttttttgaaggg
26013748

Score = 161 bits (81), Expect = 3e-36
Identities = 142/163 (87%), Gaps = 7/163 (4%)
Strand = Plus / Minus

Query: 6311 tgttattaattgtctatatatttgtgttctgtttaaattgaaaacaatattttttcatat
6370
|||||
Sbjct: 2277472 tgttcttaattgtctctatttatgttttatttaaattgaaaataatattttttacatat
2277413

Query: 6371 gttgttaattcttaatttcttatgcatattttatgttttatcattttttaagagttgaaa
6430
|||||
Sbjct: 2277412 gttgttaattttt-----tttgcataattttatgttttatcattttttaagagttgaaa
2277360

Query: 6431 tcctttgtattttttattttatttgattattataatacataatt 6473
|||||
Sbjct: 2277359 tcctttatagtttcattttatttgattattaaaatatataatt 2277317

Score = 159 bits (80), Expect = 1e-35
Identities = 174/205 (84%), Gaps = 4/205 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||
Sbjct: 13177591 aaaattaattgttacaaaatttattatctaaactttcatgcgcattaaatat----taaa
13177646

Query: 5177 aatttttagtggttatatttagtgaaattaattttttataacataattgatgtattagttc
5236
|||||
Sbjct: 13177647 aatttttagtggttatatatagtgacattaaatattttataatataattgatttattaattc
13177706

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||||

Sbjct: 13177707 agttggttagagtgttggtgctaataacacaaaactcgaagggttgattcttgtttgggtc
13177766

Query: 5297 attaatTTTaaattaatttgtaaaa 5321
 |||||
Sbjct: 13177767 attaatTTTaaattaatttgtaaaa 13177791

Score = 159 bits (80), Expect = 1e-35
Identities = 174/205 (84%), Gaps = 4/205 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
 |||||
Sbjct: 13272063 aaaattaattggttacaaaatttattatctaaactttcatgcgcattaaatat----taaa
13272118

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 13272119 aatttttagtggttatatatagtgacattaaatattttataatataattgatttattaattc
13272178

Query: 5237 agttggttagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 |||||
Sbjct: 13272179 agttggttagagtgttggtgctaataacacaaaactcgaagggttgattcttgtttgggtc
13272238

Query: 5297 attaatTTTaaattaatttgtaaaa 5321
 |||||
Sbjct: 13272239 attaatTTTaaattaatttgtaaaa 13272263

Score = 155 bits (78), Expect = 2e-34
Identities = 196/234 (83%), Gaps = 6/234 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
 |||||
Sbjct: 13209419 aaaattaattggttacaaaatttattatctaaattttcatgcgcattaaatat----taaa
13209474

Score = 155 bits (78), Expect = 2e-34
Identities = 180/214 (84%)

Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 45101131 aaaattaattggttacaaaatttattatgtaaacttatatgtgtattaaatatacattaga
45101072

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 45101071 aattttagtattatatattgtgacattaattattttttaacataattgacttattagtta
45101012

Query: 5237 agttgggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

||||
Sbjct: 45101011 agttagttagagcgttgtgctaataatgcaaaagtcacaaatttgatacttacatgagtc
45100952

Query: 5297 attaatttttaaattaatttgtaaaatatattttt 5330

|||||
Sbjct: 45100951 attaatttttaaattatttcataaaaacatatattttt 45100918

Score = 151 bits (76), Expect = 2e-33
Identities = 173/205 (84%), Gaps = 4/205 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 13145668 aaaattaattattacaaaatttattatctaaactttcatgcgcatataat----taaa
13145723

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 13145724 aattttagtggttacatatagtgacattaattattttataatataattgatttattaattc
13145783

Query: 5237 agttgggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 13145784 agttgggtagagtgttgtgctaataacacaaaactcgaagggttgattcttggttgggtc
13145843

Query: 5297 attaatttttaaattaatttgtaaaa 5321
 ||||||||||||||||||||
 Sbjct: 13145844 attaatttttaaattaatttgtaaaa 13145868

Score = 149 bits (75), Expect = 1e-32
 Identities = 181/215 (84%), Gaps = 1/215 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||||||||||||||||| |||| | ||| | ||||||||||||
 Sbjct: 21856611 aaaattaattggttacaaaatttattatgtaaacctatatgtgtattaaatatacattaga
 21856552

Query: 5177 aatttttagtggttatatttagtgaaattaatta-ttttataacataattgatgtattagtt
 5235
 |||||||||||||||| ||| || |||||||| |||| ||||||||| ||||| |
 Sbjct: 21856551 aatttttagtggttatatatagcgacattaattatttttttaacataattggcttattagct
 21856492

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
 5295
 |||||||||||||||| || |||||||| ||||| ||||| | | | | ||| |
 Sbjct: 21856491 cagttgggttagagcattgtgctaataatgtaaaagtcctaagtttgagacctgcatgggt
 21856432

Query: 5296 cattaatttttaaattaatttgtaaaatatattttt 5330
 |||||||||||||||| |||||||| ||| ||||
 Sbjct: 21856431 cattaatttttaaattatttttgtaaaacatactttt 21856397

Score = 147 bits (74), Expect = 4e-32
 Identities = 137/158 (86%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacattag
 5175
 |||||||||||||||||||| |||| ||| ||| | ||||||||||||
 Sbjct: 45026027 aaaaattaattggttacaaaatttattatgtaaacttgatgtgtattaaatatacattag
 45025968

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235
 |||||||| | ||||| ||||| ||||||||| ||||||||| | ||||||||
 Sbjct: 45025967 aaatttttagagttatatatagtgacgttaattattttttaacataattgggtttattagtt
 45025908

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||

Sbjct: 13882792 aatttttagtggttatatatagcgatattaattatttttataacataattgttctattatctc
13882851

Query: 5237 agttgggta 5245
|||||||
Sbjct: 13882852 agttgggta 13882860

Score = 145 bits (73), Expect = 1e-31
Identities = 136/157 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataacataacattaga
5176
|||||||
Sbjct: 47898380 aaaattaattggttataaaaatttattatctaaatatacatgtgcattaaatatacattaga
47898321

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236
|||||||
Sbjct: 47898320 aatttttagtggttacatataatgacattaattatttttataatataattgggtttattagctc
47898261

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtca 5273
| ||| ||||| || |||||
Sbjct: 47898260 aattgattagagtatcgtgttaataacgcgaaagtca 47898224

Score = 137 bits (69), Expect = 4e-29
Identities = 126/145 (86%)
Strand = Plus / Plus

Query: 5118 aaattaattggttacaaaatttattatctaaatttgcacataacataacattagaa
5177
|||||||
Sbjct: 49805203 aaattaattgtcacaaaatttattatgtaaatttatatgtgcattaaatatacattagaa
49805262

Query: 5178 attttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttca
5237
|||||||
Sbjct: 49805263 attttagtggttatataaagtgtatgtcaattatttttataacataaattatctattagttta
49805322

Query: 5238 gttgggtagagcattatgttaataa 5262

|||||
Sbjct: 49805323 attggttagagcgtcatgctaataa 49805347

Score = 135 bits (68), Expect = 1e-28
Identities = 68/68 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 15270122 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
15270063

Query: 1703 tcaagtac 1710
|||||
Sbjct: 15270062 tcaagtac 15270055

Score = 135 bits (68), Expect = 1e-28
Identities = 153/180 (85%), Gaps = 1/180 (0%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaatttttataacataa
5221

|||||
Sbjct: 21961296 taaatataaattagaattttttagtggttatatatagcgacactatttattt-ataacataa
21961238

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataatgtgaaagtcaaaagttca
5281

|
Sbjct: 21961237 tgagcctattagttcagttgggttgagatattttattaataatgtgaaagacacaagtttg
21961178

Query: 5282 attcttacttggatcattaattttaaattaatttgtaaaatatatttttgaaaaaaaaat
5341

|||||
Sbjct: 21961177 attcttgcttgaaccattaattttaaattaatcgtaaattatatatttttgaaaaaaaaat
21961118

Score = 133 bits (67), Expect = 6e-28
Identities = 115/131 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 26040204 aaaattaattgtcacaaaatttattatgtaagttacatatgcattaaatatacattaaa
 26040145

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||
 Sbjct: 26040144 aaatttagtggttatatataatgacattaattattttataatataattgatctattaattc
 26040085

Query: 5237 agttgggttaga 5247
 |||||
 Sbjct: 26040084 agttgggttaga 26040074

Score = 129 bits (65), Expect = 9e-27
 Identities = 143/169 (84%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 |||||
 Sbjct: 14680470 taaatatacattataaaatttttagtggttacatataatgacattaattatttttaacataa
 14680529

Query: 5222 ttgatgtattagttcagttgggttagagcattatggttaataatgtgaaagtcaaaagttca
 5281
 |||||
 Sbjct: 14680530 ttgatgttagcttagttgggttagaactttgtgctaatagtgtgaaagtcataaggttcg
 14680589

Query: 5282 attcttacttggatcattaatttttaaattaatttgtaaaatatattttt 5330
 |
 Sbjct: 14680590 agacttacatagaccattaatttttaaattatttcataaaatatattttt 14680638

Score = 129 bits (65), Expect = 9e-27
 Identities = 143/169 (84%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 |||||

Query: 5222 ttgatgtattagttcagttggtagagcattatgttaataatgtgaaagtcaaaagttca
5281
 ||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4867271 ttggtctattagttcaattggtagagcattatgctaataataaaaagtcataagtttg
4867330

Query: 5282 attcttacttggatcattaatttttaaattaa 5312
 | ||||| ||| ||||| ||||| |||||
Sbjct: 4867331 aatcttatatgggtccattaatttttaaattaa 4867361

Score = 125 bits (63), Expect = 1e-25
Identities = 151/179 (84%), Gaps = 1/179 (0%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattgtttacaaaatttattatctaaatttgcattgcacaataaatata-catt
5173
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11459571 aaaaaattaattgtttcaaaatttattatataaaatttacatgtgcattaaataaacatt
11459512

Query: 5174 agaaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattag
5233
 ||||| ||||| ||||| ||||| | ||||| ||||| ||||| |||||
Sbjct: 11459511 agaaattgttagtggttatatatagtaacattaattattttatagtataaattatttag
11459452

Query: 5234 ttcagttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttg
5292
 ||||| ||| | || ||||| ||| ||||| | ||||| |||||
Sbjct: 11459451 ttcagttgattatcgtgttggtttaataacgcaaaagtcacatgttcaattcctacttg
11459393

Score = 125 bits (63), Expect = 1e-25
Identities = 90/99 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgtttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36008884 aaaattaattgttcacaaaatttattatataaaatttatatgcgcattaaatatacattaga
36008825

Query: 5177 aatttttagtggttatatttagtgaaattaattattttata 5215
 ||||| ||||| ||||| ||||| | ||||| |||||
Sbjct: 36008824 aatttttagtggttatatatagtcacattaattattttata 36008786

Score = 123 bits (62), Expect = 5e-25
 Identities = 127/148 (85%), Gaps = 3/148 (2%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||||||||||||||||||||||||| ||| | ||| | ||||||||| ||| |
 Sbjct: 21856703 aaaattaattggttacaaaatttattatgtaaacttttatgtgtattaaatatacgttata
 21856762

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||||||||||||| ||| || ||||||||||||| || ||||||||| |||||||
 Sbjct: 21856763 aatttttagtggttatatatagcgacattaattattttttatcataattga---cttagttc
 21856819

Query: 5237 agttggtagagcattatgttaataatg 5264
 |||||||||||||||| ||||| |||||
 Sbjct: 21856820 agttggtagagcattgtgttactaatg 21856847

Score = 123 bits (62), Expect = 5e-25
 Identities = 176/214 (82%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||| |||| | ||||||||||||| ||||||| |||| | || |||||||||||||
 Sbjct: 48076022 aaaattagttgtctcaaaaatttattattttaaatttacatgtgcattaaatatacattaga
 48076081

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||| ||| |||||| | ||| | | ||||||||||||||||||||| |||||||
 Sbjct: 48076082 aatcttattgttatgtatagcaacactatttattttataacataattgactcattagttt
 48076141

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 | ||||||||| ||||||| ||||||| ||||||| | ||||| | ||| |||||
 Sbjct: 48076142 aattggtagaacattatgctaataatctgaaagttataagtttgagccttgtttgggtc
 48076201

Query: 5297 attaattttaattaatttgtaaaatatattttt 5330

|||| |
 Sbjct: 48076202 attatttttaaatattggttaataaatattttt 48076235

Score = 121 bits (61), Expect = 2e-24
 Identities = 97/109 (88%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacataga
 5176

|||| |
 Sbjct: 2225513 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatacataga
 2225454

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||| |
 Sbjct: 2225453 aatttttagtggttatgtatagtaacattatttattttataataaaattga 2225405

Score = 121 bits (61), Expect = 2e-24
 Identities = 133/157 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacataga
 5176

|||| |
 Sbjct: 48049709 aaaattaattatcataaaaatttattatttaaatttacatgcacattaaatatacataga
 48049768

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||| |
 Sbjct: 48049769 aatttttagtggttatgtatagtaacattatttattttatggcataattgtcctattaattc
 48049828

Query: 5237 agttggtagagcattatggttaataatgtgaaagtca 5273
 | ||| ||| |||| |
 Sbjct: 48049829 aattgattaaagcattgtgctaataacctgaaagtca 48049865

Score = 121 bits (61), Expect = 2e-24
 Identities = 115/133 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 48075993 aaaattaattgtcacaaaatttattatttaaatttacatgtgcattaaatatacattaga
48075934

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 48075933 aatttttagtggttatatataacaacattatttactttataacataattaactcattagctc
48075874

Query: 5237 agttggtagagc 5249

|||||
Sbjct: 48075873 agttggtagagc 48075861

Score = 119 bits (60), Expect = 9e-24
Identities = 99/112 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221

|||||
Sbjct: 11687135 taaatataatattagaaatttttagtggttatatattgatattaattattttttaacataa
11687076

Query: 5222 ttgatgtattagttcagttggtagagcattatgttaataatgtgaaagtca 5273

|| |
Sbjct: 11687075 ttaacctattagctcagttggtagaacattatgctaataatgaaagtca 11687024

Score = 117 bits (59), Expect = 3e-23
Identities = 113/131 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 36009086 aaaattaattattacaaaatttattatttaaatttatatgcacattaaatatacatataa
36009145

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 36009146 aattttaagattacatataatgatattaattattttataatataactgatttattaattc
36009205

Query: 5237 agttgggttaga 5247
 |||||
 Sbjct: 36009206 cgttgggttaga 36009216

Score = 117 bits (59), Expect = 3e-23
 Identities = 113/131 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 |||||
 Sbjct: 45101224 aaaattaattattacaaaatttattatgttaaacttatatgtgtattaaatatacattaga
 45101283

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 45101284 aatttttagtattatatattgtgacattaattattttttaacataattgacttattagttc
 45101343

Query: 5237 agttgggttaga 5247
 |||||
 Sbjct: 45101344 agtttggttaga 45101354

Score = 115 bits (58), Expect = 1e-22
 Identities = 124/146 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 |||||
 Sbjct: 44978057 aaaattaattgtcacaaaatttattatctgaatttacatgtgcattaaatataatataaa
 44977998

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 44977997 aatttttggtattatatataatgacattaattattttataacataattagtctattaactt
 44977938

Query: 5237 agttgggttagagcattatgttaataa 5262
 |||||
 Sbjct: 44977937 agttgggttagagcggttatgctaataa 44977912

|||||

Sbjct: 15070374 taaatatatatattataaaatatttagtggttatatatagtgacattaattattttataacata
15070315

Query: 5221 attgatgtattagttcagttgggttagagcattatgttaat 5260
||| | ||||| |||||||||||||||| |||||
Sbjct: 15070314 attagtctattagctcagttgggttagagcattgtgttaat 15070275

Score = 111 bits (56), Expect = 2e-21
Identities = 62/64 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
||||||||||||||||| ||||||||||||||||||| |||||||||||
Sbjct: 44568346 aacgccttatccactaggtgggatcggctacatggatcaacttccgtcataatgttcta
44568405

Query: 1703 tcaa 1706
|||
Sbjct: 44568406 tcaa 44568409

Score = 109 bits (55), Expect = 8e-21
Identities = 194/238 (81%), Gaps = 3/238 (1%)
Strand = Plus / Plus

Query: 7057 gactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgccttttt
7116
||||||||||||| ||| || ||| || || || ||||||||||||||| ||| |
Sbjct: 11450298 gactaagaattgtgtgtcacatcaatcaaatacatgaacaatgtgagagttgatctttct
11450357

Query: 7117 ctgtatgtctttcatagccttggttaataacttttgtataaacttcaccaaataatgaatcac
7176
|| ||||||| |||| || ||| |||| || ||||| || |||||||||||
Sbjct: 11450358 ctctatgtctt-catagtcttatttagtacttgagtataaatttggtcaaataatgaatcat
11450416

Query: 7177 tcttgcgacttctctccccctttgggtgaacaatgcattacacctagtatagggtgattt
7236
| ||| || ||||||| ||||||||||||||| ||||| | ||||| |||||
Sbjct: 11450417 tattgtgatttctctccctctttgggtgaacaatgtattacacttgatatagattgattt
11450476


```
Query: 5226      tgtattagttcagttgggttagag 5248
              | | | | | | | | | | | | | | | |
Sbjct: 26040335 tctattagttcaattggttagag 26040357
```

Score = 109 bits (55), Expect = 8e-21
 Identities = 121/143 (84%)
 Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcacatgcacaataaatatacattagaaatTTtagtggtata
 5191
 ||||| ||||| ||| || ||||| |||| ||| ||||| |||||
 Sbjct: 46522945 aaaatttattatttaaatttacatatgcattaaatatattaaaaaatttagtggtata
 46523004

Query: 5192 ttttagtgaaattaattatTTTataacataattgatgtattagttcagttgggttagagcat
 5251
 | || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 46523005 tataacaaaattaattatTTTataacataattaacctattaactcaattgggttagagtat
 46523064

Query: 5252 tatgttaataatgtgaaagtcaa 5274
 ||| ||||| ||||| |||||
 Sbjct: 46523065 tattttaataatatgaaagtcaa 46523087

Score = 107 bits (54), Expect = 3e-20
 Identities = 114/134 (85%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgtttacaaaatttattatctaaatttgcacatgcacaataaatatacattag
 5175
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 29655226 aaaaattaattgtttataaaaatttattatgttaaatttatatgtatattaattatacattaa
 29655285

Query: 5176 aaatTTtagtggttatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
 5235
 ||| ||||| |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 29655286 aaagTTtagtgtaatatatagtgacattaattagttTTTaaacatagttaacctattagtt
 29655345

Query: 5236 cagttgggttagagc 5249
 ||||| |||||
 Sbjct: 29655346 cagttggatagagc 29655359

Score = 107 bits (54), Expect = 3e-20

Identities = 96/110 (87%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
||||||| ||||||| ||||||| || || | ||||||| |||||||
Sbjct: 46522850 taaatataatattagaaaatttttagtggtatacataacaatattaattattttataacataa
46522791

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataatgtgaaagt 5271
|||| | |||||| | |||||| | || | |||||| | ||||||
Sbjct: 46522790 ttgacttattagtttagttgggttagaacggtgagtttaataatgtgaaagt 46522741

Score = 105 bits (53), Expect = 1e-19
Identities = 89/101 (88%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
||||||| ||||||| ||||||| || || | ||||||| |||||||
Sbjct: 1395848 taaatatacattagaaaattttaatgttatataataatgacattaattattttataacataa
1395907

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataa 5262
|||| | || | || || || || || || || || || || ||
Sbjct: 1395908 ttgatctgttaactcaattgattagaacattatattaataa 1395948

Score = 105 bits (53), Expect = 1e-19
Identities = 157/187 (83%), Gaps = 6/187 (3%)
Strand = Plus / Plus

Query: 4770 tttttattgataccgtaa-taataattaataagtaataattttttatcaatatcatagct
4828
||||||| || ||||| || | |||||| | || | || | ||||||| |||| |
Sbjct: 5455912 tttttattggtatcgtaagtaacaattaatgagcaacaatattttatcaatattatagtt
5455971

Query: 4829 ttgttttagaaaaaaagagattttaataattaatagctaaagaaatccaaaagtttttcttt
4888
||||||| ||||||| ||||||| || || | || | |||||| |
Sbjct: 5455972 ttgttttag-aaaaaagagattttaatagtttaataatagctaaagaaatccaaaagtttttcttt
5456027

Query: 4889 tttttttttttgttcttattcaattctaattttgtcat-ttttttctactgtctctcgta
 4947

||||| |||| | ||||||||||||| ||||| |||| | ||||||||||| | |||| |
 Sbjct: 5456028 ttttctattgtcttcttattcaattataattctgtcttattttttctactatttctcata
 5456087

Query: 4948 cttctct 4954

||||||
 Sbjct: 5456088 cttctct 5456094

Score = 103 bits (52), Expect = 5e-19
 Identities = 181/224 (80%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

||||||||||| |||||||| ||||| |||||||| ||||| || |||||||| ||||| |
 Sbjct: 2225599 aaaattaattgccacaaaattaattatttaaatttacatgcgcattaaatatgcattaaa
 2225658

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

| |||||||| |||| | ||| | |||| | ||||||||||||| | |||| | ||||| |
 Sbjct: 2225659 attttttagtattatgtatagcaacattatttattttataatagaatttgctcattagctt
 2225718

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296

||||||||||||| || || ||||||| | ||||||||||||||||||||| |||| |
 Sbjct: 2225719 agttgggttagagtgttgctgctaataacctaagtcaaaagttcaattcttgtttgggcc
 2225778

Query: 5297 attaatTTTTAAATTAATTTGTAAATATATTTTTGAAAAAAAAA 5340

||||||||||||||||||| || | | |||||||| | ||||||||
 Sbjct: 2225779 attaatTTTTAAATTAATTCGTCACAAATATTTTTTTAAAAAAAAA 2225822

Score = 103 bits (52), Expect = 5e-19
 Identities = 82/92 (89%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
 5175

||||||||||||| | ||||||||||||||||| |||||||| |||| | || |||||||||||||||||
 Sbjct: 30846943 aaaaattaattatcacaaaatttattatgttaaatttacatgtgcattaaatatacattag
 30847002

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaatt 5207
 |||||
Sbjct: 30847003 aaatTTtagtgTtatatatagcgacattaatt 30847034

Score = 103 bits (52), Expect = 5e-19
Identities = 112/132 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaataacattaga
5176
 |||||
Sbjct: 34063479 aaaattaattgttacaaaatttattatgttaaacttatatttatattaaataacattaga
34063420

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
 |||||
Sbjct: 34063419 aatTTtattgttatatatatcgacattaattatTTTTtaataataattgacataattaactc
34063360

Query: 5237 agttggtagag 5248
 |
Sbjct: 34063359 aattggtagag 34063348

Score = 103 bits (52), Expect = 5e-19
Identities = 112/132 (84%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatacacaataaataacattag
5175
 |||||
Sbjct: 42651746 aaaaattaattataacaaaatttattatgttaaatttacatgtgcattaaataatattaa
42651805

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235
 |||||
Sbjct: 42651806 aaatTTtagtattatatataacaacattaattatTTTataataacaattgggtctattagct
42651865

Query: 5236 cagttggtaga 5247
 |||||
Sbjct: 42651866 cagttggtaga 42651877

Score = 101 bits (51), Expect = 2e-18
Identities = 54/55 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatg 1697
|||||
Sbjct: 6567384 aacgccttatcccactaggtggggtcgactacatggatcaacttccgccataatg
6567330

Score = 101 bits (51), Expect = 2e-18
Identities = 120/143 (83%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaatttttataacataa
5221
|||||
Sbjct: 42651165 taaatatacattagaaaattttaatatatatataacgatattaatttttctataacataa
42651106

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataatgtgaaagtcaaaagttca
5281
||| |
Sbjct: 42651105 ttggtttattagctcaattgattagagtgttatgctaataacgcgaaagttataggttca
42651046

Query: 5282 attccttacttgatcattaattt 5304
|||| |
Sbjct: 42651045 attcctgcttgatcattaattt 42651023

Score = 101 bits (51), Expect = 2e-18
Identities = 114/135 (84%)
Strand = Plus / Minus

Query: 5206 ttattttataacataattgatgtattagttcagttgggttagagcattatgttaataatgt
5265
|||||
Sbjct: 48048161 ttattttataaacataattgatctattagtttaattgggttagaacattatgttaataactt
48048102

Query: 5266 gaaagtcaaaagttcaattccttacttgatcattaatttttaattaatttgtaaaatata
5325

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

```
Query: 5177      aatttttagt 5185
          |||||
Sbjct: 44978318 aatttttagt 44978326
```


Score = 97.6 bits (49), Expect = 3e-17
Identities = 112/133 (84%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaaatatacatag
5175
|||||
Sbjct: 49804943 aaaaattaattgtcataaaaattattatgtaaatttacataaacattaaatatattat
49804884

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
|||||
Sbjct: 49804883 aaatttttagtggttatataataatattaattattttatagtctaattgacttattagct
49804824

Query: 5236 cagttgggtagag 5248
|||||
Sbjct: 49804823 cagttgattagag 49804811

Score = 97.6 bits (49), Expect = 3e-17
Identities = 85/97 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacatag
5176
|||||
Sbjct: 50718962 aaaattaattgtcacaaaatttattatttaaatttatatgtacattaaatatacatag
50719021

Query: 5177 aatttttagtggttatatttagtgaaattaattatttta 5213
|||||
Sbjct: 50719022 aatttaagtgttatataataatattattttatttta 50719058

Score = 95.7 bits (48), Expect = 1e-16
Identities = 93/108 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacatag
5176
|||||
Sbjct: 6129306 aaaattaattttttacaaaatttattaggttaattttacatatgcattaaatatattag
6129365

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattg 5224
|||||
Sbjct: 6129366 aatTTtagtgTtatatataacaatattaattatTTTataacataattg 6129413

Score = 95.7 bits (48), Expect = 1e-16
Identities = 111/132 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 29656236 aaaattaattgtcaaaaaatttattgtgtaaacttatatgtacattaagtatacattagg
29656177

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
|||||
Sbjct: 29656176 aatTTtagtattatatataacaatattaattatTTTataacataattgacctattagctc
29656117

Query: 5237 agttgggtagag 5248
|
Sbjct: 29656116 aattgggtagag 29656105

Score = 95.7 bits (48), Expect = 1e-16
Identities = 179/221 (80%), Gaps = 5/221 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 41818567 aaaattaattatcacaaaatttattatttaaatttatatgcacattaatatacattaga
41818508

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
|
Sbjct: 41818507 agttttaattatatataacaacattatttattttaaaatataattgggtctattagtta
41818448

Query: 5237 agttgggtagagcattatgt--taataatgtgaaagtcaaaagttcaattcttacttgga
5294
|||
Sbjct: 41818447 agttagttggag---tgtgtactaataatctaaaagttgtaagttcaactcttgattgaa
41818391

Query: 5295 tcattaatttttaaattaatttgtaaaatatatTTTTGAAAA 5335
 ||||| ||||| ||||| ||||| ||
Sbjct: 41818390 ccattaatttttaatttaattcataaaacatatTTTTGAAAA 41818350

Score = 95.7 bits (48), Expect = 1e-16
Identities = 144/176 (81%)
Strand = Plus / Minus

Query: 7046 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
7105
 ||||| ||||| || | |||| | ||||| || | ||||| |
Sbjct: 42905396 attgtctcctagactaagaatcgtgtatcgcgtaacatcgaactcaagaatagtgtgagtg
42905337

Query: 7106 tttgccttttctgtatgtctttcatagccttggttaataacttttgataaaacttcacca
7165
 ||||| || | |||| | ||||| |||| | |||| | |||| | || |
Sbjct: 42905336 tttgccttttctatgcatctttgatgaccttggttagtacttgcgataaaacttggtta
42905277

Query: 7166 aatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacct 7221
 ||| || | || | ||||| ||||| |||| | |||| | |||| |
Sbjct: 42905276 gatgcaagcattggtgcagcttctctccctcttttggttgaacaatgtattacacct
42905221

Score = 93.7 bits (47), Expect = 5e-16
Identities = 77/87 (88%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtgccacttttcttggtggaatcttcct
7352
 ||||| ||||| ||||| ||||| |||| | || | |||| | ||
Sbjct: 2276468 gtgtcccatcgccagccaccatcccatgcaagagtgccacttttctcgcgaaatcttcct
2276409

Query: 7353 aagctaattaattggttagttcagcttg 7379
 || ||||| || | |||| | || |
Sbjct: 2276408 tagtcaattaattgcttagttcaacttg 2276382

Score = 93.7 bits (47), Expect = 5e-16
Identities = 128/155 (82%)

Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176

|||||
Sbjct: 7534889 aaaattaattgtcacaaaatttattatttaaatttaaatactcattaaatatatattaaa
7534830

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| |||| ||||| || | |||| ||||| ||||| ||||| |||||
Sbjct: 7534829 aaatttaattgttatataatacaatattattttattttataatataattgatctattaactt
7534770

Query: 5237 agttggtttagagcattatgttaataatgtgaaagt 5271
| ||||| |||| ||||| |||||
Sbjct: 7534769 aattggtttagagcgttatactaataatatgaaagt 7534735

Score = 93.7 bits (47), Expect = 5e-16
Identities = 101/119 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176

|||||
Sbjct: 14114078 aaaattaattgtcacacatttattatataaaatttaaattgtgcattaaatatatattaaa
14114137

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

||||| | ||||| || | ||||| ||||| ||||| ||||| |||||
Sbjct: 14114138 aatttttaattattatataatacaacattaattattttataacataattgatttattagtt
14114196

Score = 91.7 bits (46), Expect = 2e-15
Identities = 76/86 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221

|||||
Sbjct: 8243136 taaatatacattataaaatttttagtggttatatatagcgacattaattattttttaacataa
8243077

Query: 5222 ttgatgtattagttcagttgggttaga 5247
 || | ||||| | |||||
 Sbjct: 8243076 ttaacttattagcttagttgggttaga 8243051

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 121/146 (82%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||| ||||| ||||| ||||| ||| || ||||| ||||| |
 Sbjct: 42729851 aaaattattgtcacaaaatttattatgtaaatttatatgtgcattaaatatacattaaa
 42729792

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || | ||||| ||||| ||||| || ||||| ||
 Sbjct: 42729791 aattttaatggttatataacaacattaattattttataatataattaatctattaaatc
 42729732

Query: 5237 agttggtagagcattatgttaataa 5262
 |||| |||| ||| || |||||
 Sbjct: 42729731 agtttattagatcattgtgctaataa 42729706

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 106/125 (84%), Gaps = 2/125 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||||| ||||| || ||||| ||||| ||| | ||||| ||||| |
 Sbjct: 47198626 aaaattaattgtgacaaaatttatcatgtaaatttacatgtgtattaaatatacattgaa
 47198685

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || || ||||| ||||| ||||| || ||||| |||||
 Sbjct: 47198686 aatttttagtattatatataacgacattaattat--taacataattaatttattagttc
 47198743

Query: 5237 agttg 5241
 |||||
 Sbjct: 47198744 agttg 47198748

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 105/126 (83%), Gaps = 8/126 (6%)
 Strand = Plus / Plus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagcattatgttaat
 5260
 |||||
 Sbjct: 11477751 attaattatTTTtataatataattgatctattagttcagttggttagagcatcgagttaat
 11477810

Query: 5261 aatgtgaaagtcaaaagttcaattccttacttggatcattaatttttaaattaatttgtaaa
 5320
 | | |||||
 Sbjct: 11477811 gacttaaaagtcaaa-----tcttacatggatcatgaatttttaaattaattcgtaaa
 11477862

Query: 5321 atatat 5326
 | |||
 Sbjct: 11477863 acatat 11477868

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 108/127 (85%), Gaps = 4/127 (3%)
 Strand = Plus / Plus

Query: 6872 acttttcagcgtatacacagaatgtatgtagttcctataactcatggtgag-catgcttat
 6930
 ||||| || |||||
 Sbjct: 30687243 actttccaacgtatacacagaatgcatgtagttcctataactcatggtgagccatgcttac
 30687302

Query: 6931 a---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacact
 6987
 | | |||||
 Sbjct: 30687303 aagcagcaacaacatgagagcaaggcatgttcaatttctagaatttgtcacagtcacacc
 30687362

Query: 6988 acctttc 6994
 |||||
 Sbjct: 30687363 acctttc 30687369

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 114/137 (83%)
 Strand = Plus / Minus

Query: 7085 aactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttgtttaat
 7144

|||||
 Sbjct: 40246666 aactcaagaacattatgagtggttgcctttctaagtgcacatcttgatggccttgtttagt
 40246607

Query: 7145 acttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttggttg
 7204

|||||
 Sbjct: 40246606 acttttggtataaaacttgaccatagcaagcattactgcggcttctctccctcttttggtg
 40246547

Query: 7205 aacaatgcattacacct 7221
 |||||
 Sbjct: 40246546 aacaatgcattacacct 40246530

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 108/129 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 42380854 aaaattaattggttataaaaattcattacgtaaacttatatgtgaattaaatatacattaga
 42380795

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|
 Sbjct: 42380794 aatttttagtggttatatatagagacattaattattttttaacataactagtctattagctc
 42380735

Query: 5237 agttgggta 5245

|||||
 Sbjct: 42380734 agttgggta 42380726

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 107/127 (84%), Gaps = 3/127 (2%)
 Strand = Plus / Minus

Query: 6891 agatgtatgtagttcctataactcatgggtgagcatgcttataa---acaacaacatgagaa
 6947

|||||

Sbjct: 42905552 agatgtatgtagttcctgtattcatgatgagcatgcttacaagcaacaacaacatgagaa
 42905493

Query: 6948 caaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgacc
 7007

||||| ||||| || ||| ||||| ||| | ||||| ||||| ||||| ||| |||||
 Sbjct: 42905492 caagacatgtgtaatttctgaatttttttataatcacaccacctttcatccagcctgacc
 42905433

Query: 7008 atgaaat 7014

|||||
 Sbjct: 42905432 gtgaaat 42905426

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 105/125 (84%)
 Strand = Plus / Minus

Query: 5145 taaatttgcatgcacaataaatatacattagaaatttttagtggttatatttagtgaaatta
 5204

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 50718833 taaatttacatgcacattaaatatataataaaaaatttttagtattatatataataacatta
 50718774

Query: 5205 attattttataacataattgatgtatttagttcagttgggttagagcattatggttaataatg
 5264

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 50718773 tttattttataataataatctatttagttcaattgattataataactatggttaataacg
 50718714

Query: 5265 tgaaa 5269

|||||
 Sbjct: 50718713 tgaaa 50718709

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 92/107 (85%), Gaps = 2/107 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 27348171 aaaattaattggttacaaaatttattatgtaaacttatat--atattaaatatacattaga
 27348114

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataatt 5223


```

||||| ||||| || || ||||| ||||| ||||| |||||
Sbjct: 27348113 aattttagcattatatataaagatattaattattttttaacataatt 27348067

```

Score = 87.7 bits (44), Expect = 3e-14
Identities = 68/76 (89%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaatttttaaatacaacaatatggcataa
6639

```

||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 30691037 aaaatattttaaatttgaaaaatacaataaaaaatttttaaacacaaagaatatgacataa
30690978

```

Query: 6640 aattaatggttggc 6655
 | | || ||||| |||||
Sbjct: 30690977 attcaagggttggc 30690962

Score = 87.7 bits (44), Expect = 3e-14
Identities = 121/146 (82%), Gaps = 3/146 (2%)
Strand = Plus / Minus

Query: 6872 acttttcagcgtatacacaagatgtatgtagttcctataactcatgggtgagcatgcttata
6931

```

||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40246881 actttccaacgtatacacgagatgtatatagtttctgtactcatgatgagcatgcttaca
40246822

```

Query: 6932 ---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
6988

```

| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40246821 agcagcaacaacatgagaacaaggcatgtgaaacttctagaatttgccacagtcatacca
40246762

```

Query: 6989 cctttcatctagcttgaccatgaaat 7014
 ||||| ||||| ||||| |||||
Sbjct: 40246761 cctttcatctagcctgaccgtgaaat 40246736

Score = 85.7 bits (43), Expect = 1e-13
Identities = 58/63 (92%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTTtagtgTTtatTTTtagtgaaattaattTTTTataacataa
5221

||||| ||||||||| | ||||||| ||||||| ||||||||| |||||||||
Sbjct: 11477612 taaatatgcattagaaatttaactgTTtatatatagtgacattaattTTTTataacataa
11477671

Query: 5222 ttg 5224

|||
Sbjct: 11477672 ttg 11477674

Score = 85.7 bits (43), Expect = 1e-13
Identities = 61/67 (91%)
Strand = Plus / Minus

Query: 5282 attcttacttggtatcattaatTTTaaattaatttgtaaaatatTTTTgaaaaaaaaat
5341

||||| ||||||||| ||||||||| ||||||||| | ||||| ||||||||| |||||||||
Sbjct: 18251768 attcttgcttggtatcattaatTTTaaattaatcataaattatatTTTTgaaaaaaaaat
18251709

Query: 5342 tataaaa 5348

|| ||||
Sbjct: 18251708 taaaaaa 18251702

Score = 85.7 bits (43), Expect = 1e-13
Identities = 133/163 (81%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||||| ||||||||| ||||||||| ||||| || ||| | ||||||||| |||
Sbjct: 27348266 aaaattaattTTTtacaaaatttattatgtaaacttatatgtgtattaaatatacattata
27348325

Query: 5177 aatttttagtgTTtatTTTtagtgaaattaattTTTTataacataattgatgtattagttc
5236

||||||| ||||||||| ||| | ||||||||| ||| ||||||| ||||||| ||
Sbjct: 27348326 aatttttagtgTTtatatatagcggTgTTaattTTTTtaataaattggcatattagctc
27348385

Query: 5237 agttggtagagcattatgTTaataatgtgaaagtcaaaagtt 5279

||| ||||||| | | ||||||||| ||||||||| |||||
Sbjct: 27348386 gattgattagagcgtcgtattaataatgcgaaagtcacaagtt 27348428

```
Query:  6771      cttttc 6776
          |||||
Sbjct: 30687154 cttttc 30687159
```

```
Query: 5311      aatttgtaaaatatatttttgaaaaaaaaa 5339
              |||||
Sbjct: 5168659  aatttgtaaaacatatattttttaaaaaaaa 5168631
```

Score = 81.8 bits (41), Expect = 2e-12
Identities = 65/73 (89%)
Strand = Plus / Plus

Query: 5267 aaagtcaaaagttcaattcttacttggatcattaattttaaattaatttgtaaaatatat
5326
||||||| | ||| ||||||| ||||| ||||||| ||||||| ||||||| |||||
Sbjct: 7536927 aaagtcacaggtttaattcttgcttgggccattaattttaaattaatttgtaaacacatat
7536986

Query: 5327 ttttgaaaaaaaaa 5339
||||||| |||||
Sbjct: 7536987 ttttgaaaaaaaaa 7536999

Score = 81.8 bits (41), Expect = 2e-12
Identities = 92/109 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
||||||| ||| ||||||| ||||||| ||||||| ||||| || ||||||| |||||||
Sbjct: 13330583 aaaattaattctcacaaaatttattatttaaatttacatgcgcattaaatatgcattaga
13330642

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
|||| ||||| ||| | | | ||||| ||||||| |||||||
Sbjct: 13330643 aattgtagtgatatgtatgataacattatttattttataacctaattga 13330691

Score = 81.8 bits (41), Expect = 2e-12
Identities = 131/160 (81%), Gaps = 2/160 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
||||||| ||||| ||||||| ||||||| ||||| | ||||||| |||||||
Sbjct: 13422439 aaaattaattgtcacataatttattatgtaaatttacatgtgtattaaatatacatattat
13422380

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta--gt
5234
||||||| ||||| ||||| ||||||| ||||||| |||||

Sbjct: 13422379 ttttttagtggttatatataatgatgctaattttttataacataattaacctattaactc
13422320

Query: 5235 tcagttggtagagcattatggttaataatgtgaaagtcaa 5274
||||| ||| | |||| |||||||||
Sbjct: 13422319 tcagttgagtagaacgttatgctaataatgtgaaagtcaa 13422280

Score = 81.8 bits (41), Expect = 2e-12
Identities = 111/132 (84%), Gaps = 3/132 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||||| ||| ||||||||| |||| | | | |||||||||
Sbjct: 14610122 aaaattaattattataaaaatttattatataaaacttatat--atattaaatatacattaga
14610179

Query: 5177 aattttagtggttatatttagtgaaattaattttttataacataattgatgtattagttc
5236
||||| ||||||||| || | ||||||||| ||||||||| | |||||
Sbjct: 14610180 aattttcgtggttatatata-tattattaattttttataacataattagtcctattaattc
14610238

Query: 5237 agttggtagag 5248
||||| |||||
Sbjct: 14610239 agttgattagag 14610250

Score = 81.8 bits (41), Expect = 2e-12
Identities = 101/117 (86%), Gaps = 3/117 (2%)
Strand = Plus / Plus

Query: 4764 ttaatctttttattgataccgtaa-taataattaataagtaat-aattttttatcaatat
4821
||||||||||| ||| ||| ||||||||| |||| | ||| | |||||
Sbjct: 41629815 ttaatctttttattggtactataagtaataattaatgagtaaacaattcttcaccaatat
41629874

Query: 4822 catagctttggttagaaaaaagagatttaataattaatagctaaagaaatccaaaa
4878
| ||||||||| |||| | ||||||||| | |||||||||
Sbjct: 41629875 cttagctttggttagaaaaaataa-atttaataattaatggttaaagaaatccaaaa
41629930

Score = 81.8 bits (41), Expect = 2e-12
Identities = 110/133 (82%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacatta
5174
Sbjct: 42845901 aaaaaatttattattacaaaatttattatgttaaacttatatgtgtattaaatatacatta
42845842

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
5234
Sbjct: 42845841 gaaattttagtggttatatatatcaatgttaattattttttaacacaattgacttattaac
42845782

Query: 5235 tcagttgggttaga 5247
Sbjct: 42845781 ttagttgggttaga 42845769

Score = 81.8 bits (41), Expect = 2e-12
Identities = 86/101 (85%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
Sbjct: 47198348 taaatatacattaaaaatttttagtggttatatataacaacattaattattttataatataa
47198289

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataa 5262
Sbjct: 47198288 ttgtcctattagctcagttgggttagagtggttatattaataa 47198248

Score = 81.8 bits (41), Expect = 2e-12
Identities = 110/133 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
Sbjct: 51454282 aaaattaattgtcacaaaatttattatttaaatttacatgtgtattaaatataaattcga
51454341

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|| ||||| ||||| | |||| | |||| | ||||| ||||| ||||| ||||| ||
Sbjct: 51454342 aagtttagtggttatgtatagtaatatattttattttataatgtaattggctcattatctc
51454401

Query: 5237 agttggtagagc 5249
|| ||||| ||||| ||
Sbjct: 51454402 agttggtagagc 51454414

Score = 77.8 bits (39), Expect = 3e-11
Identities = 117/143 (81%)
Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcacataacataacattagaaatttagtggttata
5191
|| ||||| ||||| | ||| | ||||| ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 2524468 aaaatttattatctaaatttgcacataacataacattagaaatttagtggttata
2524527

Query: 5192 ttttagtgaaattaattattttataacataattgatgtattagttcagttggtagagcat
5251
| || | |||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 2524528 tataacaacattatctatcttataacataattgattcattaaactcagttggtagagcat
2524587

Query: 5252 tatgttaataatgtgaaagtcaa 5274
| || ||||| ||||| ||||| ||
Sbjct: 2524588 tgtgctaataacctgaaagtcaa 2524610

Score = 77.8 bits (39), Expect = 3e-11
Identities = 81/95 (85%)
Strand = Plus / Plus

Query: 5131 caaaatttattatctaaatttgcacataacataacattagaaatttagtggttat
5190
|| ||||| ||||| ||||| ||||| || || ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 3322013 caaaatttattatctaaatttgcacataacataacattagaaatttagtggttat
3322072

Query: 5191 atttagtgaaattaattattttataacataattga 5225
|| ||||| ||||| ||||| || || ||||| ||||| ||
Sbjct: 3322073 atatagtgatattaattatcttattatataattga 3322107

Score = 77.8 bits (39), Expect = 3e-11
Identities = 87/103 (84%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacataa
5221
 ||||||||||||||||||||||||| ||||| || | ||||||||||||||| |||||||
Sbjct: 31332583 taaatatacattagaaatTTtagtatttatatgtaacaatattaattTTTTtaacataa
31332642

Query: 5222 ttgatgtattagttcagttggTTtagagcattatgttaataatg 5264
 ||||| ||||| || ||||| ||||||||||| || |||||||
Sbjct: 31332643 ttgacctattaatTTtagttattTTtagagcatcatactaataatg 31332685

Score = 77.8 bits (39), Expect = 3e-11
Identities = 75/87 (86%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaatTTTtaaatacaaaacaatatggcataa
6639
 ||||||||||||||||||||||| ||||| | ||||| ||||||||||||||| ||||||| |||||
Sbjct: 42905885 aaaatattttaaatttgaaacaatatagcaaaaatTTTtaaatacaaaagaatatgacataa
42905826

Query: 6640 aattaatgttgTTggcctgagcctaca 6666
 | | | | ||||| | |||||||||
Sbjct: 42905825 attcaacattgttgacttgagcctaca 42905799

Score = 75.8 bits (38), Expect = 1e-10
Identities = 59/66 (89%)
Strand = Plus / Plus

Query: 5179 tTTtagtgTTtatTTtagtgaaattaattTTTTataacataattgatgtattagttcag
5238
 ||||||||||| || ||||||| ||||||||||||||| ||||||| || ||||||| |||||
Sbjct: 13279837 tTTtagtgTTacatatagtgatattaattTTTTataataattaatttattaattcag
13279896

Query: 5239 ttggtt 5244
 |||||
Sbjct: 13279897 ttggtt 13279902

```
Query: 5073      gccctctcaagtccttga 5090
                |||||
Sbjct: 41631242 agcctctcaagtccttga 41631259
```

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 86/102 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| || | | | ||||| ||||| |||||
 Sbjct: 42380949 aaaattaattggtaaaaaaattattatgtaaacttataagtgtattaaatatacattaga
 42381008

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataaca 5218
 || ||||| ||||| || || ||||| ||||| ||||| |||||
 Sbjct: 42381009 aacttttagtggttatatataacgacattaattattttataaca 42381050

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 72/83 (86%), Gaps = 3/83 (3%)
 Strand = Plus / Minus

Query: 6707 acctgattcttggatatccattttgg---tgtgtatacagagaggagacatgacaaccttt
 6763
 ||||| ||||| ||||| || ||||| ||||| ||||| ||||| |||||
 Sbjct: 2277076 acctgattcttaaatatccattttcggtgtgtgtatatgagaggagacatgatgatcttt
 2277017

Query: 6764 agaatttcttttcatttttgggt 6786
 ||||| ||||| ||||| |||||
 Sbjct: 2277016 agaatttcttttcatttttgggt 2276994

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 49/53 (92%)
 Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaa 5349
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 27723289 attaatttttaaattaatttcgtaacacatatatttttgaaaaaaaaattataaaaa
 27723237

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 70/81 (86%)
 Strand = Plus / Minus

Query: 6934 caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
6993

|||||
Sbjct: 29912364 caacaacatgagaacaaggcatgtgcaacttttgaaatttgtcacagttacaccatattt
29912305

Query: 6994 catctagcttgaccatgaaat 7014

||||
Sbjct: 29912304 catccagcttaactatgaaat 29912284

Score = 73.8 bits (37), Expect = 5e-10
Identities = 167/209 (79%), Gaps = 1/209 (0%)
Strand = Plus / Plus

Query: 5130 acaaaattttattatctaaatttgcacatgcacataaataacattagaaatttttagtggtta
5189

|||||
Sbjct: 43450703 acaaaattttaatatgttaaattttacatgttcattaaatataaattagaaatttttagtatta
43450762

Query: 5190 tatttagtgaaattaattattttataacataattgatgtattagttcagttgggttagagc
5249

|||
Sbjct: 43450763 tatataacgaca-tcatttggtttataataatataatatttattagttcagttgggttgagc
43450821

Query: 5250 attatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaat
5309

||
Sbjct: 43450822 gttcaattaataatgcaggagacacaagtttgatatttgcttggaccaataatttttaaat
43450881

Query: 5310 taatttgtaaaatatatttttgaaaaaaa 5338

|||
Sbjct: 43450882 taaatcgtaaatttatatttttgaaaaaaa 43450910

Score = 73.8 bits (37), Expect = 5e-10
Identities = 58/65 (89%)
Strand = Plus / Plus

Query: 5128 ttacaaaattttattatctaaatttgcacatgcacataaataacattagaaatttttagtgt
5187

|||||

|||||

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatag
5175
|||||

Sbjct: 50515289 aaaaattaattatcacaaaatttattatctaaatttacatgtgtattaaatatatattaa
50515348

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacat 5219
||| |||| ||||||| | | |||||||||||||||||
Sbjct: 50515349 aaaatTTaatgTtatatatgacaacattaattatTTTataacat 50515392

Score = 69.9 bits (35), Expect = 7e-09
Identities = 44/47 (93%)
Strand = Plus / Minus

Query: 1650 tatccactaggtggggtcggctacatggatcaacttcgccataat 1696
||||| ||||||||||||||||| ||||||||||||||||| |||||||
Sbjct: 35386861 tatcctactaggtggggtcgggttacatggatcaacttcagccataat 35386815

Score = 69.9 bits (35), Expect = 7e-09
Identities = 65/75 (86%)
Strand = Plus / Plus

Query: 5014 ataatTTtaataaattatTTtatgaataaataaaaggTTTTattcttaaatttgcttgag
5073
||||||||||||||| ||||||||| ||||||||| | | ||||||||||||| ||| ||
Sbjct: 41680344 ataatTTtaataaactatTTtatgagtaaataaaatatctcattcttaaatttactttag
41680403

Query: 5074 ccctctcaagtcctt 5088
||||||| |||||
Sbjct: 41680404 gcctctcaggtcctt 41680418

Score = 69.9 bits (35), Expect = 7e-09
Identities = 75/87 (86%), Gaps = 1/87 (1%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTtatatTTtagtgaaattaatta-tTTTataacata
5220
||||||| ||||||||||||||||||||| | ||| ||||||||| |||| ||| |||
Sbjct: 41896606 taaatatatattagaaatTTtagtgTtatatacaatgatattaattatTTTTTTaatata
41896665

Query: 5221 attgatgtattagttcagttgggttaga 5247
||||| ||||||| | |||||||||
Sbjct: 41896666 attgacctattagctaagttgggttaga 41896692

Score = 69.9 bits (35), Expect = 7e-09
Identities = 53/59 (89%)
Strand = Plus / Minus

Query: 7308 gccaccatcccatgcgagagtgccacttttcttgtggaatcttcctaagctaattaattg
7366
|||||
Sbjct: 42905123 gccaccatcccatgcgagagtgccacttttcttgtgaaatcttgccgagccaattaattg
42905065

Score = 67.9 bits (34), Expect = 3e-08
Identities = 88/106 (83%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaa
5177
|||||
Sbjct: 45023810 aaattaattgttacaaaatttattatgtaaacttatatatgtattaaatatataattaaaa
45023869

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataatt 5223
|||||
Sbjct: 45023870 attttagtattatatataacgatgttaattattttttaacataatt 45023915

Score = 67.9 bits (34), Expect = 3e-08
Identities = 40/42 (95%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaa 5337
|||||
Sbjct: 47198803 cattaatttttaaattaattcgtaaaatatattattgaaaaaa 47198844

Score = 67.9 bits (34), Expect = 3e-08
Identities = 64/74 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
|||||

Score = 65.9 bits (33), Expect = 1e-07
Identities = 39/41 (95%)

Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatTTTTGAAAA 5336
 |||||
Sbjct: 49423190 cattaatttttaaattaatttgtaaaatatatTTTTGAAAA 49423230

Score = 63.9 bits (32), Expect = 4e-07
Identities = 60/68 (88%), Gaps = 1/68 (1%)
Strand = Plus / Minus

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876
 |||||
Sbjct: 4122905 aatatcataactttattttaaaaaaaa-agatttaataattaataactagagaaatttaa
4122847

Query: 4877 aagttttt 4884
 |||||
Sbjct: 4122846 aagttttt 4122839

Score = 63.9 bits (32), Expect = 4e-07
Identities = 90/108 (83%), Gaps = 1/108 (0%)
Strand = Plus / Plus

Query: 5119 aattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaaa
5178
 |||||
Sbjct: 15070423 aattaattgtcacaaaatttattatataaaatttatatatattaaatatattaaaaa
15070482

Query: 5179 ttttagtggttatatttagtgaaattaattatTTTtataacataattgat 5226
 |||||
Sbjct: 15070483 atttagtggttatatataataatatcaatta-tttataatatattgat 15070529

Score = 63.9 bits (32), Expect = 4e-07
Identities = 41/44 (93%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAA 5340
 |||||
Sbjct: 27723273 attaatttttaaattaatttgtaacacatatTTTTGAAAAAAAA 27723316

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcattg 5156
 |||||
Sbjct: 27764458 aaaattaattgtcacaaaatttattatctaaatttacattg 27764419

Score = 63.9 bits (32), Expect = 4e-07
Identities = 95/116 (81%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
 |||||
Sbjct: 46562519 aaaattaattgctataaaaatttattatttaaatttatattgtttattaaatttatattaaa
46562578

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
 |||||
Sbjct: 46562579 aatttttaattattatatataataattattatttttaattataattgatctatta
46562634

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaa 5336
 |||||
Sbjct: 47065229 attaatttttaaattatttcgtaaaatatatttttgaaaaa 47065190

Score = 62.0 bits (31), Expect = 2e-06
Identities = 73/87 (83%)
Strand = Plus / Minus

Query: 5162 taaataacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 |||||
Sbjct: 8388835 taaataatatttagaaatttttaattattatatatagcgattgaattatttttaattataa
8388776

Score = 62.0 bits (31), Expect = 2e-06
Identities = 76/91 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 15228820 aaaattaattgtcataaaaatttattatgttaaacttatatgtgcattaaatatatattaaa
15228761

Query: 5177 aatttttagtggttatatttagtgaaattaatt 5207

|||||
Sbjct: 15228760 aatttttaattgttatatataatgacattaatt 15228730

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Minus

Query: 5130 acaaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtta
5189

|||||
Sbjct: 18251919 acaaaaatttattttacaaaatttataatgtacattaaatatataaattagaaatttttagtggtta
18251860

Query: 5190 tat 5192

|||
Sbjct: 18251859 tat 18251857

Score = 62.0 bits (31), Expect = 2e-06
Identities = 61/71 (85%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221

|||||
Sbjct: 47925185 taaatatatattaaaaatttttagtattatatataataatattaattattttttaacataa
47925126

Query: 5222 ttgatgtatta 5232

|||||
Sbjct: 47925125 ttgatctatta 47925115

Score = 62.0 bits (31), Expect = 2e-06
Identities = 46/51 (90%)
Strand = Plus / Plus

Score = 60.0 bits (30), Expect = 7e-06
Identities = 48/54 (88%)
Strand = Plus / Plus

Query: 4845 agatttaataattaatagctaaagaaatccaaaagtttttcttttatttttatt 4898
||||| ||||| ||||| ||| ||||| ||||| ||||| |||||
Sbjct: 41679989 agatttaatagttaatagctaaacaaactcaaaaacttttcttttatttttatt
41680042

Score = 60.0 bits (30), Expect = 7e-06
Identities = 54/62 (87%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221
||||| ||||| ||||| ||| ||||| ||| ||| ||||| ||||| ||| |||||
Sbjct: 43828199 taaatataatagaaattttaatatatatataatgatattaattattttttaataataa
43828258

Query: 5222 tt 5223
||
Sbjct: 43828259 tt 43828260

Score = 60.0 bits (30), Expect = 7e-06
Identities = 81/98 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
||||| ||||| ||||| ||| ||||| ||| ||| ||||| ||||| |||||
Sbjct: 45825643 aaaattaattgtcacaaaatttattatctaaatttataatgtattaaatatacattaga
45825702

Query: 5177 aatttttagtggttatatttagtgaaattaattattttat 5214
||||| ||||| ||| ||| ||||| ||||| |||||
Sbjct: 45825703 aattttattattatatataataatattattttattttat 45825740

Score = 60.0 bits (30), Expect = 7e-06
Identities = 62/72 (86%), Gaps = 3/72 (4%)
Strand = Plus / Minus

Query: 5153 catgcacataaatatacattagaaattttagtggttatatttagtgaaattaattatttt
5212
||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 47065350 catgcgcattaaatatatatataaaaattttagtggttatatata---atattattttatttt
47065294

Query: 5213 ataacataattg 5224
 |||||
Sbjct: 47065293 ataacataattg 47065282

Score = 58.0 bits (29), Expect = 3e-05
Identities = 47/53 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattatTTtat 5214
 |||||
Sbjct: 5675727 taaatatacattagaaatTTtagtattatatataaccacattaattatTTtat 5675675

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 5179 tTTtagtgTTtatTTtagtgaaattaattatTTtata 5215
 |||||
Sbjct: 6355254 tTTtagtgTTtatTTtaatgatattaattatTTtata 6355218

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Plus

Query: 5206 ttatTTtataacataattgatgtattagttcagttggttagagc 5249
 |||||
Sbjct: 7536880 ttatTTtataacataattggcttattagatcagttggttagagc 7536923

Score = 56.0 bits (28), Expect = 1e-04
Identities = 55/64 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaTTtattatctaaTTtgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 11477546 aaaattaattatcataaaaTTtattatataaaTTtacatgtgcattaaatatacat
11477487

Query: 5177 aatt 5180

||||
Sbjct: 11477486 aatt 11477483

Score = 56.0 bits (28), Expect = 1e-04
Identities = 31/32 (96%)
Strand = Plus / Plus

Query: 5290 ttggatcattaatttttaaattaatttgtaaaa 5321
|||| ||||||||||||||||||||||||||||||
Sbjct: 13279921 ttgggtcattaatttttaaattaatttgtaaaa 13279952

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 5013 aataattttaataaattattttatgaataaataaaa 5048
|||||||||||||||||||||||| ||||||||
Sbjct: 14836188 aataattttaataaattattttatataataaataaaa 14836223

Score = 56.0 bits (28), Expect = 1e-04
Identities = 46/52 (88%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattagttcagttggtagagcatt 5252
|||| |||||||||||||||||||||| ||||| | | ||||||||| ||||
Sbjct: 30585841 attatttattttataacataattgatttattagcttacttggttagaacatt 30585790

Score = 56.0 bits (28), Expect = 1e-04
Identities = 58/68 (85%)
Strand = Plus / Minus

Query: 7081 atcgaactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttggt
7140
|||||||||||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 30690515 atcgaactcaagaacagtggtgagtggttgcctttctgtgcgtctttgatgggtccttggt
30690456

Query: 7141 taatactt 7148
|| |||||
Sbjct: 30690455 tagtactt 30690448

Score = 56.0 bits (28), Expect = 1e-04
Identities = 61/72 (84%)
Strand = Plus / Plus

Query: 5202 ttaattatTTTtataacataattgatgtattagttcagttggttagagcattatgttaata
5261
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42846104 ttaattatTTTtataacataattgatttattagctcgattggttagagtgtgatgctaata
42846163

Query: 5262 atgtgaaagtca 5273
 ||| |||||
Sbjct: 42846164 atgcaaaagtca 42846175

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46522940 aaaaattaattgtcacaaaatttattatataaaattt 46522905

Score = 56.0 bits (28), Expect = 1e-04
Identities = 43/48 (89%)
Strand = Plus / Minus

Query: 5291 tggatcatTAATTTTaaattaatttgtaaaatatatTTTTgaaaaaaa 5338
 |||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 47198216 tggaccatTAATTTTaaattaatttcataaaatatactTTTTaaaaaaa 47198169

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Minus

Query: 5295 tcattaattTTTaaattaatttgtaaaatatatTTTT 5330
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 51251765 tcattaattTTTaaattatttcgtaaaatatatTTTT 51251730

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatattttt 5330
 |||||
Sbjct: 1232531 cattaatttttaaattatttcgtaaaatatatattttt 1232565

Score = 54.0 bits (27), Expect = 4e-04
Identities = 48/55 (87%)
Strand = Plus / Plus

Query: 5013 aataatttttaataaattatatttatgaataaataaaagggttttattcttaaatttg 5067
 |||||
Sbjct: 10867600 aataatttttaataaataattttataagtaataaaaaaatatcattcttaaatttg
10867654

Score = 54.0 bits (27), Expect = 4e-04
Identities = 39/43 (90%)
Strand = Plus / Plus

Query: 1640 acaaacgccttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 29822038 acaaaagccttataccactaggcgaggtcggctacatggatca 29822080

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacat 1676
 |||||
Sbjct: 34460344 gccttatcccactaggtgaggtcggctacat 34460374

Score = 54.0 bits (27), Expect = 4e-04
Identities = 40/43 (93%), Gaps = 1/43 (2%)
Strand = Plus / Plus

Query: 6038 gagtttttttttatcc-aaataataaaaaaaaaaattaattatttta 6079

|||||
 Sbjct: 47888056 gagttttttttatcccaaataatatgaaaaaattaattattta 47888098

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 33/35 (94%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 |||||
 Sbjct: 49715959 aaaattaattgtcacaaaatttattatttaaattt 49715993

Score = 52.0 bits (26), Expect = 0.002
 Identities = 62/74 (83%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 |||||
 Sbjct: 5168799 taaatataaaattaaaagtttcagtattatatataatgatatgaattattttataatataa
 5168740

Query: 5222 ttgatgtattagtt 5235
 ||||
 Sbjct: 5168739 ttgacctattagtt 5168726

Score = 52.0 bits (26), Expect = 0.002
 Identities = 53/62 (85%)
 Strand = Plus / Plus

Query: 5131 caaaatttattatctaaatttgcacatgcacaataaatatacattagaaaatttttagtggttat
 5190
 |||||
 Sbjct: 14681295 caaaatttattatttaaatttatatacatattaaatatattagatatatttagtggtcat
 14681354

Query: 5191 at 5192
 ||
 Sbjct: 14681355 at 14681356

Score = 52.0 bits (26), Expect = 0.002

Identities = 35/38 (92%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatatttttgaa 5333
 ||||| ||||||||| ||| |||||
Sbjct: 36009259 cattaattataaattaatttgtaaaacatagttttgaa 36009296

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatatattttt 5330
 ||||| ||||||||| ||| |||||||||
Sbjct: 48056643 attaatttttaaattattttataaaaatatatattttt 48056610

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcggctacatggatc 1681
 ||||| ||||||||| |||||||||
Sbjct: 49234840 cttatctcactaggtgaggtcggctacatggatc 49234807

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||||||||| ||| |||||||||
Sbjct: 3256400 gccttatcccactaagtgaggccggctacatggatca 3256436

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 5294 atcattaatttttaaattaatttgtaaaatatatattttt 5330
 ||||| ||||||||| ||| |||||||||
Sbjct: 8388703 atcattaatttttaagttatttcgtaaaatatatattttt 8388667

Score = 50.1 bits (25), Expect = 0.007
Identities = 43/49 (87%)
Strand = Plus / Plus

Query: 4969 ttcttcagtttacttgattattatcttctgatacattagccaataa 5017
 ||||| |||||||||||||||||||| ||| | ||||||| |||||
Sbjct: 41629970 ttcttttagtttacttgattattatcttctgtaaacacattagtcaataa 41630018

Score = 50.1 bits (25), Expect = 0.007
Identities = 129/163 (79%), Gaps = 3/163 (1%)
Strand = Plus / Minus

Query: 5120 attaattgttacaaaatttattatctaaatttgcacataaataacattagaaat
5179
 ||||||| |||||||||||||||||||| |||| | ||| | ||||||| ||| |||
Sbjct: 41896467 attaattattacaaaatttattatgtaaaattatatgtgtattaaatatatgttaaaaaa
41896408

Query: 5180 tttagtgttatatttagtgaaattaattatcttataacataattgatgtattagttcagt
5239
 ||||||| ||||||| || ||| |||| | || ||| ||| | ||||| || ||||||||| |
Sbjct: 41896407 tttagtattatataatgatattatcttcttataa---taattaatctattagttcaat
41896351

Query: 5240 tggttagagcattatgttaataatgtgaaagtcaaaagttcaa 5282
 ||| | ||| |||||||||||||||||||| ||| | |||||
Sbjct: 41896350 gagttgaagcggttatgttaataatgtgaaactcacatgttcaa 41896308

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 1647 ccttatcccactaggtggggctcggctacatgga 1679
 |||||||||||||||||||| ||| |||||||||||||
Sbjct: 43407480 ccttatcccactaggtgaggttggtcctacatgga 43407512

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 5313 tttgtaaaatatatTTTTGAAAAA 5337
 |||||
Sbjct: 44978345 tttgtaaaatatatTTTTGAAAAA 44978369

Score = 50.1 bits (25), Expect = 0.007
Identities = 88/109 (80%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataataacattaga
5176
 ||||| ||||| || ||||| || | ||||| |||||
Sbjct: 47480680 aaaattaattgttataaaaatttactatataaaatttatatgtgtattgaatataatataa
47480621

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 ||||| ||||| || | ||||| || ||||| |||||
Sbjct: 47480620 aatttttagtggttatatatatcaatgttaattactttttaacataattga 47480572

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||||| || || ||||| |||||
Sbjct: 51142603 gccttatcccactaggtgaggttggttacatggatca 51142639

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 ||||| ||||| ||||| |||||
Sbjct: 1846870 aaaattaattgtcacaaaatttattatgtaaa 1846901

Score = 48.1 bits (24), Expect = 0.026
Identities = 54/64 (84%)
Strand = Plus / Minus

Query: 5120 attaatgttacaaaatttattatctaaatttgcatacacaataataacattagaaat
5179

```

      ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10056736 attaattattataaaaatttattatttaaatttacatgtgtattaaatataaaattaaaaat
10056677

```

```

Query: 5180      tttta 5183
      ||||
Sbjct: 10056676 tttta 10056673

```

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

```

Query: 5117      aaaattaattggttacaaaatttattatctaaa 5148
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16873036 aaaattaattggttataaaaatttattatgtaaa 16873005

```

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Plus

```

Query: 1640      acaaacgccttatcccactaggtggggctcggtacatgga 1679
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 33244551 acaaatgccttatcccactcagtggggctgactacatgga 33244590

```

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

```

Query: 6580      aaaatatattaaatttgaaataata 6603
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43171760 aaaatatattaaatttgaaataata 43171737

```

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

```

Query: 5122      taattggttacaaaatttattatctaaat 5149
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43760865 taattggttacaaaatttattacctaaat 43760838

```


Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattat 5143
 |||||
Sbjct: 1232431 aaaattaattgttacaaaattaattat 1232457

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5316 gtaaaatatatTTTTGAAAAAAAA 5338
 |||||
Sbjct: 2664164 gtaaaatatatTTTTGAAAAAAAA 2664142

Score = 46.1 bits (23), Expect = 0.10
Identities = 41/47 (87%)
Strand = Plus / Minus

Query: 5302 ttttaaattaatttgtaaaatatatTTTTGAAAAAAAAATTATAAAA 5348
 |||||
Sbjct: 4893534 ttttaaattaattggtaacaaatatTTTTCAAAAAGAAATTAATAAAA 4893488

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 15300752 ttttttttaaaaaaaaaaaaaaca 15300730

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 6265 tttttttttgttttgttttaaattg 6291
 |||||
Sbjct: 27875272 tttttttttgttttgtttcaaattg 27875246

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 29075325 actttttttttaaaaaaaaaaaaaa 29075303

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 ||||| | |||||
Sbjct: 29912736 acaagttcaattgaactaaaatatttaaatt 29912706

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 6580 aaaatatatttaaatttgaaataatacaa 6606
 ||||| | |||||
Sbjct: 30686941 aaaatatatttaaatttgaaacaatacaa 30686967

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 ||||| | |||||
Sbjct: 30691054 acaagttaaattgaactaaaatatttaaatt 30691024

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 542 ttttaattagttttaaataattggaatacaatt 572
 ||||| ||||| ||||| ||||| |||||
Sbjct: 30941670 ttttaataagttttaactaattggaatacaatt 30941640

Score = 46.1 bits (23), Expect = 0.10
Identities = 53/63 (84%)
Strand = Plus / Minus

Query: 5124 attgttacaaaatttattatctaaatttgcacataaatatacattagaaatttta
5183
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40731332 attgtcacaaaatttattattcaaatttacttgcgcatataatgtattagaaatgtta
40731273

Query: 5184 gtg 5186
 |||
Sbjct: 40731272 gtg 40731270

Score = 46.1 bits (23), Expect = 0.10
Identities = 35/39 (89%)
Strand = Plus / Plus

Query: 5209 ttttataacataattgatgtattagttcagttgggttaga 5247
 |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41896700 ttttttaacataattgatctattagctaagttgggttaga 41896738

Score = 46.1 bits (23), Expect = 0.10
Identities = 56/67 (83%)
Strand = Plus / Minus

Query: 6719 gatatccatttttggtgtgtatacgagaggagacatgacaaccttttagaatttcttttcat
6778
 ||||| ||||| ||| | || ||||| ||||| ||| ||| ||||| ||||| ||||| |||||
Sbjct: 42905724 gatatccatttcggtagggatgcgagaagagacaagacgacccttagaatttcttttctt
42905665

Query: 6779 ttttggg 6785
 |||||
Sbjct: 42905664 gtttggg 42905658

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 ||||| | |||||
Sbjct: 42905902 acaagttaaattgaactaaaatatttaaatt 42905872

Score = 46.1 bits (23), Expect = 0.10
Identities = 54/63 (85%), Gaps = 1/63 (1%)
Strand = Plus / Minus

Query: 6390 ttatgcatatTTTTatgttttatcattttttaagagttgaaatcctttgtatTTTTatTTT
6449
 ||||| ||| |||| | ||||| ||||| ||| |||||
Sbjct: 44753395 ttatgcatttttt-tgtttattcatttttcaagagtaaaaattccttgatTTTcatttt
44753337

Query: 6450 att 6452
 |||
Sbjct: 44753336 att 44753334

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5765 tccttaaactttaattgaaaaa 5786
 |||||
Sbjct: 484512 tccttaaactttaattgaaaaa 484491

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5759 aaaagatccttaaactttaatt 5780
 |||||
Sbjct: 710356 aaaagatccttaaactttaatt 710335

Score = 44.1 bits (22), Expect = 0.41
Identities = 49/58 (84%)

Strand = Plus / Plus

Query: 5123 aattggtacaaaatttattatctaaatttgcacataaataacattagaaatt
5180
 ||||| ||||||||||||| | |||| | || ||||| | |||||||||
Sbjct: 1395763 aattgtcacaaaatttattatgtgaatttatatgtacattaaataaatattagaaatt
1395820

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 6259 aattgcttttttttttgttttgtttt 6284
 ||||||| |||||||||||||
Sbjct: 2150321 aattgcttgttttttgttttgtttt 2150296

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 6205 attttttttttcaaaaccaagttaagaaat 6234
 |||| |||||| |||||||||||||
Sbjct: 2277564 atttatttttttaaaaccaagttaagaaat 2277535

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
 |||||||||||||
Sbjct: 5004113 ttttttttaaaaaaaaaaaaaaac 5004092

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||
Sbjct: 5781987 ctttttttttaaaaaaaaaaaaaa 5782008

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggtata 5191
 ||||| |||||
Sbjct: 6129240 taaatataaattagaaattttagtattata 6129211

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 6441504 ttttttttaaaaaaaaaaaaaaac 6441525

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 3888 tttgtaaaaatgatttttttta 3909
 |||||
Sbjct: 6786232 tttgtaaaaatgatttttttta 6786211

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 3973 tataaaaaatttaattgttttttag 3994
 |||||
Sbjct: 10125131 tataaaaaatttaattgttttttag 10125110

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6266 ttttttttgttttgttttaaa 6287

```
          |||||||
Sbjct: 12277961 ttttttttgtttgttttaaa 12277940
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5544      gaacttttttttaaaaaaaaaa 5565
                |||||||
Sbjct: 22040291 gaacttttttttaaaaaaaaaa 22040312
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaac 5569
                |||||||
Sbjct: 37018536 ttttttttaaaaaaaaaaaac 37018515
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

```
Query: 5541      attgaacttttttttaaaaaaaaaaa 5566
                |||||||
Sbjct: 38987010 attgaacttttttttaaaaaataaaa 38986985
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaaa 5568
                |||||||
Sbjct: 39956468 ctttttttttaaaaaaaaaaa 39956489
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 52/62 (83%)
Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagcattatgttaat
5260
 ||||| ||||||||||||| ||||||||| ||||| | ||||| ||||||||||||| || |||||
Sbjct: 40731234 attatTTtattTTtataatgtaattgattcattagcttagttagttagagcattgtgataat
40731175

Query: 5261 aa 5262
 ||
Sbjct: 40731174 aa 40731173

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||||
Sbjct: 44565226 ctttttttttaaaaaaaaaaaaaa 44565247

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5566
 |||||||||||||||||||||
Sbjct: 46523378 aacttttttttaaaaaaaaaaaaaa 46523399

Score = 44.1 bits (22), Expect = 0.41
Identities = 35/38 (92%), Gaps = 1/38 (2%)
Strand = Plus / Minus

Query: 5316 gtaaaatatatTTTTtgaaa-aaaaaattataaaaaaat 5352
 ||||| ||||||||||||||||| ||||||||| |||||||||
Sbjct: 49421871 gtaaattatatTTTTtgaaaaaaaaaattataaaaaaat 49421834

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/37 (91%), Gaps = 2/37 (5%)
Strand = Plus / Plus

Query: 5307 aattaatttgtaaaata--tatttttgaaaaaaaaaat 5341
 |||||||||||||||| | ||||||||||||||||
Sbjct: 49805381 aattaatttgtaaaaaacatatatttttgaaaaaaaaaat 49805417

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaa 5566
 ||||||||||||||||||||
Sbjct: 50165551 aacttttttttaaaaaaaaaaaa 50165572

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaa 5567
 ||||||||||||||||||||
Sbjct: 807431 ctttttttttaaaaaaaaaaaa 807411

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6259 aattgcttttttttttgtttt 6279
 ||||||||||||||||||||
Sbjct: 1449721 aattgcttttttttttgtttt 1449701

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 1980300 ttttttttaaaaaaaaaaaa 1980320

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)

Strand = Plus / Plus

```
Query: 5546      actttttttttaaaaaaaaaaaaaaca 5570
                ||||||||||||||||||| |||||
Sbjct: 2240062 actttttttttaaaaaaaaaaaaaaca 2240086
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

```
Query: 5030      attttatgaataaataaaaaggttttattcttaaattt 5066
                ||||||| ||||||||||||| || || || |||||
Sbjct: 2479533 attttataaataaataaaaagatttcatttttaaattt 2479497
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 6428      aaatcctttgtatttttatttttatt 6452
                ||||||||||||||||| |||||
Sbjct: 4270495 aaatcctttgtattttcattttatt 4270471
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

```
Query: 6286      aaattgtttgatttttatttttttt 6310
                ||||||||| |||||||||||||
Sbjct: 4353726 aaattgttttatttttatttttttt 4353750
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 5980809 tttttttttaaaaaaaaaaaaaa 5980789
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 36/41 (87%)
Strand = Plus / Minus

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataa 5216
||||||| ||||| || | |||||
Sbjct: 7727842 aaatttttagtattatatataataatattaattattttataa 7727802

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6267 ttttttttggttttggttttaa 6287
|||||||
Sbjct: 11404841 ttttttttggttttggttttaa 11404821

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 11681246 ttttttttaaaaaaaaaaaaaa 11681226

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 12375955 ttttttttaaaaaaaaaaaaaa 12375935

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5013 aataattttaataaattattt 5033
|||||||
Sbjct: 13552930 aataattttaataaattattt 13552950

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||||| ||||| ||| ||||| |||||
Sbjct: 13612473 gccttattccactacgtgaggtcgactacatggatca 13612509

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||| ||||| ||||| ||||| |||||
Sbjct: 13624544 ttttttttaaaaaaaaaaaaaa 13624524

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||| ||||| ||||| ||||| |||||
Sbjct: 13699835 ttttttttaaaaaaaaaaaaaa 13699815

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6603 acaacaaaaattttaaaatacaaac 6627
 ||||||| ||||| ||||| ||||| |||||
Sbjct: 14934388 acaacaaaaattttaaaatacaaac 14934412

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 14992153 tttttttttaaaaaaaaaaaaaa 14992133

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6433 ctttgtatttttattttattt 6453
 |||||
Sbjct: 16719581 ctttgtatttttattttattt 16719561

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 6286 aaattgtttgtatttttatttttttgtt 6314
 ||||| ||||| |||||
Sbjct: 16850561 aaattgtttttatttttattttatttgtt 16850589

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5311 aatttgtaaaatatattttttg 5331
 ||||| ||||| |||||
Sbjct: 21025946 aatttgtaaaatatattttttg 21025926

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 5055 attcttaaatttgcttgagccctctcaagtccttgag 5091
 ||||| ||||| ||||| ||||| |||||
Sbjct: 27935875 attcttaaattttctttaggcctcttaagtccttgag 27935911

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 29994643 tttttttttaaaaaaaaaaaaaa 29994623
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 30544811 tttttttttaaaaaaaaaaaaaa 30544791
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 6526      ttgaactaaaatattttaatt 6546
                |||||||||||||||||||
Sbjct: 30686934 ttgaactaaaatattttaatt 30686954
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5546      actttttttttaaaaaaaaaaaaaa 5566
                |||||||||||||||||||
Sbjct: 32849753 actttttttttaaaaaaaaaaaaaa 32849733
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 6265      ttttttttttgttttgtttta 6285
                |||||||||||||||||||
Sbjct: 34498243 ttttttttttgttttgtttta 34498263
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 34605752 tttttttttaaaaaaaaaaaaaa 34605772

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 38344816 tttttttttaaaaaaaaaaaaaa 38344836

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 38496244 tttttttttaaaaaaaaaaaaaa 38496264

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5326 tttttgaaaaaaaaaattataa 5346
 |||||
Sbjct: 39154770 tttttgaaaaaaaaaattataa 39154790

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6618 aaatacaaacaatatggcata 6638
 |||||
Sbjct: 40247157 aaatacaaacaatatggcata 40247137

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 41366043 tttttttttaaaaaaaaaaaaaa 41366063

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 41820785 actttttttttaaaaaaaaaaaaaa 41820805

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 42220670 tttttttttaaaaaaaaaaaaaa 42220690

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 42418766 tttttttttaaaaaaaaaaaaaa 42418746

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatatttttgaaaaaaaaa 5340
 ||||||| ||| |||||||||||||||||||
Sbjct: 42651030 attaatttaaaaattatatatttttgaaaaaaaaa 42650998

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||||
Sbjct: 43008627 tttttttttaaaaaaaaaaaaaa 43008647

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 2420 tcatctgcaaaaagcatgcat 2440
 |||||||||||||||||||||
Sbjct: 43342893 tcatctgcaaaaagcatgcat 43342913

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 7402 tattttttattataaaacaaac 7422
 |||||||||||||||||||||
Sbjct: 43899841 tattttttattataaaacaaac 43899821

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||||
Sbjct: 43975778 tttttttttaaaaaaaaaaaaaa 43975758

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 2580      taaataatatatattttttttcttt 2600
               |||||||||||||||||||
Sbjct: 44164237 taaataatatatattttttttcttt 44164217
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
               |||||||||||||||||||
Sbjct: 45032865 tttttttttaaaaaaaaaaaaaa 45032845
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
               |||||||||||||||||||
Sbjct: 45032850 tttttttttaaaaaaaaaaaaaa 45032870
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 6494      ttaaaaaatatatattttaact 6514
               |||||||||||||||||||
Sbjct: 45073547 ttaaaaaatatatattttaact 45073567
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5545      aactttttttttaaaaaaaaaaaaa 5565
               |||||||||||||||||||
Sbjct: 45246118 aactttttttttaaaaaaaaaaaaa 45246138
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 5317 taaaatatatTTTTGAAAAAAAAATTATA 5345
 ||||| || ||||| ||
Sbjct: 45278380 taaaatatatTTTCTGTAAAAAAAAATTATA 45278352

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5547 CTTTTTTTTAAAAAAAAAAAAACAA 5571
 ||||| ||||| |||||
Sbjct: 46053742 CTTTTTTTTAAAAAAAAAAAAATACAA 46053766

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 1648 CTTATCCCACTAGGTGGGGTCGGCTACATGGAT 1680
 ||||| || ||||| |||||
Sbjct: 46969981 CTTATCCCACTAAGTGAGGTGCGGCACATGGAT 46970013

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5332 AAAAAAAAAATTATAAAAAAATGAAT 5356
 ||||| ||||| |||||
Sbjct: 47205153 AAAAAAACTTATAAAAAAATGAAT 47205177

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5318 AAAATATATTTTTGAAAAAA 5338
 ||||| ||||| |||||
Sbjct: 48049425 AAAATATATTTTTGAAAAAA 48049445

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 48992456 tttttttttaaaaaaaaaaaaaa 48992476

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4788 taataattaataagtaataat 4808
 |||||
Sbjct: 49270199 taataattaataagtaataat 49270179

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 49896280 tttttttttaaaaaaaaaaaaaa 49896260

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 49896265 tttttttttaaaaaaaaaaaaaa 49896285

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaa 5566
 |||||
Sbjct: 50395632 actttttttttaaaaaaaaaa 50395652

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 50949669 tttttttttaaaaaaaaaa 50949649

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 51215383 tttttttttaaaaaaaaaa 51215363

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5568
 |||||
Sbjct: 51419561 tttttttttaaaaaaaaaa 51419581

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6141 ttcttaattacattttttta 6160
 |||||
Sbjct: 621317 ttcttaattacattttttta 621298

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Plus

Query: 6052 caaataataaaaaaaaaaattaatta 6075
 |||||
Sbjct: 768207 caaataataaaaataaaaattaatta 768230

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 777877 ttttttttttgttttgtttt 777896

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 920949 ttttttttaaaaaaaaaaaaaa 920930

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6194 tcaaaatgttcattttttttttca 6217
 |||||
Sbjct: 1796175 tcaaaatgttcattttttgtttca 1796198

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6194 tcaaaatgttcattttttttttca 6217
 |||||
Sbjct: 1834845 tcaaaatgttcattttttgtttca 1834868

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggtcggctacatggat 1680
 ||||| ||||| ||||| ||||| |||||
Sbjct: 1871054 ttatcccactagatgaggtcagctacatggat 1871023

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||| ||||| ||||| ||||| |||||
Sbjct: 2131384 ttttttttaaaaaaaaaaaaaaaca 2131361

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 5031 ttttatgaataaataaaaagggtttattcttaaattt 5066
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2539227 ttttataaataaataaaaaatttcattcttaaattt 2539192

Score = 40.1 bits (20), Expect = 6.4
Identities = 41/48 (85%)
Strand = Plus / Plus

Query: 1855 tacatgcccacaaaccacctaagtctattttccaccatcttctctacaat 1902
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2891719 tacatgcccacagccacttaaggcaaatttctaccatcttttctacaat 2891766

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5556 aaaaaaaaaaaaaacaagtaa 5575
 ||||| ||||| ||||| ||||| |||||
Sbjct: 3268882 aaaaaaaaaaaaaacaagtaa 3268863

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttatttt 4900
 |||||
Sbjct: 4076494 ttttcttttatttttatttt 4076475

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 4402987 ttttttttaaaaaaaaaaaaa 4402968

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 5233476 aaaaaaaattataaaaaaat 5233495

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6296 tatttttattttttttgtta 6315
 |||||
Sbjct: 5587640 tatttttattttttttgtta 5587659

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 5604337 ttttttttaaaaaaaaaaaaaa 5604318

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 5953608 ctttttttttaaaaaaaaaagaaca 5953585

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 5028 ttatttttatgaataaataaaaaggttttattcttaaa 5063
 |||||
Sbjct: 6089682 ttatttttatgagtaaataaaaagatctcattcttaaa 6089647

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 6441500 aacttttttttttaaaaaaaaaaaaaa 6441523

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6592 tttgaaataataacaacaaaa 6611
 |||||
Sbjct: 6445453 tttgaaataataacaacaaaa 6445472

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaa 5567
                |||||||||||||||||||
Sbjct: 6760743 tttttttttaaaaaaaaaaaaa 6760724
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6491      aaattaaaaaatatatatattt 6510
                |||||||||||||||||||
Sbjct: 6933531 aaattaaaaaatatatatattt 6933512
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaa 5566
                |||||||||||||||||||
Sbjct: 7204710 ctttttttttaaaaaaaaaaaaa 7204691
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5332      aaaaaaaaaattataaaaaaaa 5351
                |||||||||||||||||||
Sbjct: 7540594 aaaaaaaaaattataaaaaaaa 7540613
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5549      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 7729376 tttttttttaaaaaaaaaaaaaa 7729395
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6040 gttttttttatccaaataat 6059
|||||||
Sbjct: 9080939 gttttttttatccaaataat 9080958

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5608 ataactatztatatgtcatg 5627
|||||||
Sbjct: 9238154 ataactatztatatgtcatg 9238173

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6266 ttttttttggtttgtttta 6285
|||||||
Sbjct: 9770037 ttttttttggtttgtttta 9770018

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5027 attattttatgaataaataa 5046
|||||||
Sbjct: 10002979 attattttatgaataaataa 10002998

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 10246653 tttttttaaaaaaaaaaaaaa 10246672

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 10272262 tttttttttaaaaaaaaaaaaaa 10272243

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 4789 aataattaataagtaataattttttatc 4816
 |||||
Sbjct: 10293108 aataattaataattaataattttttatc 10293135

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaacaagtaa 5575
 |||||
Sbjct: 11348954 tttttttttaataaaaaaaaaagaagtaa 11348927

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6287 aattgtttgtatttttattttttt 6310
 |||||
Sbjct: 11640044 aattgttttatttttattttttt 11640021

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6531 ctaaaatattttaaattacaaaata 6554
 ||||| |||||
Sbjct: 11922323 ctaaaatctctaaattacaaaata 11922300

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 12375940 ttttttttaaaaaaaaaaaaaa 12375959

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 12453648 ttttttttaaaaaaaaaaaaaa 12453667

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaaaaaac 5569
 ||||| |||||
Sbjct: 12651496 acttttttttaagaaaaaaaaaaaaac 12651519

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5306 aaattaatttgtaaaatatatttt 5329
 ||||| |||||
Sbjct: 12830150 aaattaatttggttaaatatatttt 12830173

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5140      ttatctaaatttgcatgcac 5159
                ||||||||||||||||
Sbjct: 12845530 ttatctaaatttgcatgcac 12845549
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
                ||||||||||||||||
Sbjct: 13092592 ttttttttaaaaaaaaaaaaaa 13092573
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
                ||||||||||||||||
Sbjct: 13420262 ttttttttaaaaaaaaaaaaaa 13420281
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6265      ttttttttttgttttgtttt 6284
                ||||||||||||||||
Sbjct: 14385672 ttttttttttgttttgtttt 14385653
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

```
Query: 1646      gccttatcccactaggtggggtcggcta 1673
                |||||||||||| |||| ||||||||
Sbjct: 14665692 gccttatcccacaaggtgaggtcggcta 14665719
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 1652 tcccactaggtggggtcggctacatggatcaa 1683
||||| ||||||| || |||||||||||||||
Sbjct: 15431829 tcccaataggtggagttggctacatggatcaa 15431860

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||||||||||||
Sbjct: 15663127 ttttttttaaaaaaaaaaaaaa 15663146

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5333 aaaaaaaattataaaaaaat 5352
|||||||||||||||||
Sbjct: 17274759 aaaaaaaattataaaaaaat 17274740

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5566
|||||||||||||||||
Sbjct: 17339680 ctttttttttaaaaaaaaaaaaa 17339699

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
|||||||||||||||||
Sbjct: 17459719 ttttttttttgttttgtttt 17459738

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5601 taatTTTtataactatTTtata 5620
 |||||
Sbjct: 17535503 taatTTTtataactatTTtata 17535484

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aactTTTTTTTTtaaaaaaaaaa 5564
 |||||
Sbjct: 17802465 aactTTTTTTTTtaaaaaaaaaa 17802446

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 TTTTTTTtaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 18063399 TTTTTTTtaaaaaaaaaaaaaa 18063418

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 TTTTTTTtaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 19808115 TTTTTTTtaaaaaaaaaaaaaa 19808134

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 ||||||| ||||||||||||||||
Sbjct: 23409576 aacttttctttaaaaaaaaaaaaaa 23409599

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 ||||||||||||||||||||
Sbjct: 24832325 ctttttttttaaaaaaaaaaaaaa 24832306

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 28461644 ttttttttaaaaaaaaaaaaaa 28461663

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatatttaact 6514
 ||||||||| |||||||||||||
Sbjct: 30125046 aaattaaaaattatatatttaact 30125023

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6052 caaataataaaaaaaaaatta 6071
 ||||||||||||||||||||
Sbjct: 33739885 caaataataaaaaaaaaatta 33739866

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 6398      attttatgttttatcatttt 6417
                ||||||||||||||||
Sbjct: 34031383 attttatgttttatcatttt 34031364
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5326      tttttgaaaaaaaaattata 5345
                ||||||||||||||||
Sbjct: 35513109 tttttgaaaaaaaaattata 35513128
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5546      actttttttttaaaaaaaaaaac 5569
                |||||||||||| ||||||||||||
Sbjct: 35589106 actttttttttataaaaaaaaaaac 35589129
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6491      aaattaaaaaatatatattt 6510
                ||||||||||||||||
Sbjct: 35958918 aaattaaaaaatatatattt 35958899
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 6288      attgtttgtatttttattttttt 6311
                |||||||| ||||||||||||||||
Sbjct: 39294590 attgtttggatttttattttttt 39294567
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5542 ttgaacttttttttaaaaaa 5561
 ||||||||||||||||||
Sbjct: 39520093 ttgaacttttttttaaaaaa 39520112

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5564
 ||||||||||||||||||
Sbjct: 40699489 aacttttttttaaaaaaaaaa 40699470

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
 |||||| ||||||||||||||
Sbjct: 41366044 ttttttttaaaaaaaaaaaaaa 41366067

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttaaaaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 41809736 ctttttttaaaaaaaaaaaaa 41809755

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6269 ttttttgttttgttttaaaa 6288
 ||||||||||||||||||
Sbjct: 42106926 ttttttgttttgttttaaaa 42106907

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 6045 ttttatccaaataataaaaaaaaaattaa 6072
 ||||| ||||| ||||| |||||
Sbjct: 42354004 ttttatacaaataattaaaaaaaaattaa 42353977

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5317 taaaatatatTTTTGAAAAAAAAATTAT 5344
 ||||| ||||| ||||| |||||
Sbjct: 42626295 taaaatatTTTTTTTAAAAAAAAATTAT 42626322

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1292 aaatttatTTTTTGAAGGGT 1311
 ||||| ||||| ||||| |||||
Sbjct: 42907522 aaatttatTTTTTGAAGGGT 42907503

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cTTTTTTTTAAAAAAAAAAAA 5566
 ||||| ||||| ||||| |||||
Sbjct: 43020675 cTTTTTTTTAAAAAAAAAAAA 43020656

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4439 tcaattttttttttgtgag 4458
 |||||
Sbjct: 43180861 tcaattttttttttgtgag 43180880

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6490 gaaattaaaaaatatatatt 6509
 |||||
Sbjct: 44416269 gaaattaaaaaatatatatt 44416250

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1511 tgtaaatcttacaatttttaa 1530
 |||||
Sbjct: 44474780 tgtaaatcttacaatttttaa 44474761

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Plus

Query: 5291 tggatcattaatttttaaattaatttgtaaaatatattttt 5330
 |||| | ||||| || || ||||| |||||
Sbjct: 45023983 tggaccattaatttttaaattatttcataaaacatatattttt 45024022

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6584 tattttaaatttgaaataata 6603
 |||||
Sbjct: 45256411 tattttaaatttgaaataata 45256430

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaa 5567
                ||||||||||||||||
Sbjct: 45769318 tttttttttaaaaaaaaaa 45769337
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6265      ttttttttttgtttgtttt 6284
                ||||||||||||||||
Sbjct: 45786712 ttttttttttgtttgtttt 45786693
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5201      attaattattttataacata 5220
                ||||||||||||||||
Sbjct: 45946422 attaattattttataacata 45946441
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6314      tattaattgtctatatttgt 6333
                ||||||||||||||||
Sbjct: 46094579 tattaattgtctatatttgt 46094598
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5545      aacttttttttaaaaaaaaaa 5568
                ||||| ||||||||||||||||
Sbjct: 46151818 aacttcttttttaaaaaaaaaa 46151795
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 46608330 tttttttttaaaaaaaaaaaaaa 46608311

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 47447362 tttttttttaaaaaaaaaaaaaa 47447343

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||||
Sbjct: 47458749 ttttttttttgttttgtttt 47458730

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 47530778 tttttttttaaaaaaaaaaaaaa 47530759

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6137 cgatttcttaattacattttttta 6160
 ||||||| |||||
Sbjct: 47888223 cgatttcttaactacattttttta 47888246

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||| |||||
Sbjct: 48845115 tttttttttaaaaaaaaaaaaaaaca 48845092

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 48845099 tttttttttaaaaaaaaaaaaaa 48845118

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5783 aaaataaacttgactattta 5802
 |||||
Sbjct: 48960224 aaaataaacttgactattta 48960243

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6293 ttgtatttttattttttttg 6312
 |||||
Sbjct: 48974534 ttgtatttttattttttttg 48974553

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 49464416 tttttttttaaaaaaaaaaaaaa 49464435

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6292 tttgtatttttattttttttt 6311
 |||||
Sbjct: 49823540 tttgtatttttattttttttt 49823559

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 49959206 tttttttttaaaaaaaaaaaaaa 49959187

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5323 atatttttgaaaaaaaaaattataa 5346
 |||||
Sbjct: 50271751 atatttttgaaaaaaaaaatcataa 50271774

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 51222247 tttttttttaaaaaaaaaaaaaa 51222228

>[gb|CM000842.1](#)| Glycine max chromosome 9, whole genome shotgun sequence
Length = 46843750

Score = 1596 bits (805), Expect = 0.0
Identities = 814/817 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 32223097 aacgccttatcccactaggtggggctcggctacatggaccaacttccgccataatgttcta
32223156

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 32223157 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
32223216

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 32223217 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
32223276

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcattt
1882

|||||

Sbjct: 32223277 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcattt
32223336

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||

Sbjct: 32223337 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
32223396

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||

Sbjct: 32223397 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
32223456

Query: 2003 actttattctcatgttgggtcttgaccgccaacatttctgttccgtacaaaatcgccggt
2062

|||||

Sbjct: 32223457 actttattctcatgttgggtcttgaccgccaacatttctgttccgtacaaaatcgccggt
32223516

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 32223517 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 32223576

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182

|||||
 Sbjct: 32223577 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 32223636

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 32223637 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 32223696

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 32223697 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 32223756

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 32223757 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 32223816

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 32223817 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 32223876

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttgaa 2459
 |||||

Sbjct: 32223877 tctgcaaaaagcatgcatctcggcgctatctcttgaa 32223913

Score = 1592 bits (803), Expect = 0.0
 Identities = 812/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 35316704 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 35316763

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 35316764 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
35316823

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 35316824 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
35316883

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|| |||||
Sbjct: 35316884 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
35316943

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 35316944 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
35317003

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 35317004 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
35317063

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 35317064 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
35317123

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 35317124 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
35317183

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 35317184 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
35317243

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 35317244 tcactttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
35317303

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 35317304 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
35317363

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 35317364 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
35317423

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 35317424 ctccaagtttccaacctctcattcaactcctccctcgactctccaatgaggactatgtca
35317483

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 35317484 tctgcaaaaagcatgcatctcggcgctatctcttg 35317518

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 17547462 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
17547403

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 17547402 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
17547343

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 17547342 atagtctttttgggtcttctctgacctcaaattgtttgtcttctctccatctggtctact
17547283

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 17547282 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
17547223

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 17547222 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
17547163

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 17547162 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
17547103

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 17547102 actttattctcctgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
17547043

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 17547042 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
17546983

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 17546982 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
17546923

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 17546922 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
17546863

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 17546862 ataatatggtctcctatTTTTacctctgagttagaaaccctccttcttttgttgaactta
17546803

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 17546802 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
17546743

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 17546742 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
17546683

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 17546682 tctgcaaaaagcatgcatctcggcgctatctcttg 17546648

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 19459785 aacgccttatcccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
19459726

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 19459725 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
19459666

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 19459665 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
19459606

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 19459605 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
19459546

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 19459545 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
19459486

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 19459485 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19459426

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 19459425 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
19459366

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataaac
2122

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Sbjct: 19459365 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataaac
19459306

Query: 2123 accccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 19459305 accccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
19459246

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaacggtgtgacttgaggg
2242

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Sbjct: 19459245 tcaatttccccatcatcctgtattacagaccaagatatttaaacggtgtgacttgaggg
19459186

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 19459185 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
19459126

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 19459125 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
19459066

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
|||||
Sbjct: 19459065 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
19459006

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 19459005 tctgcaaaaagcatgcatctcggcgctatctcttg 19458971

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 3360054 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
3359995

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 3359994 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
3359935

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 3359934 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
3359875

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 3359874 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
3359815

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
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Sbjct: 3359814 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
3359755

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||

Sbjct: 3359754 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
3359695

Query: 2003 actttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 3359694 actttattctcatgttggtcttgaccgcccagcattctgttccgtacaaaatcgccggt
3359635

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 3359634 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
3359575

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 3359574 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
3359515

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 3359514 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
3359455

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 3359454 ataatatgggtctcctattttccctctgagttagaaactctccttcttttgttgaactta
3359395

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 3359394 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
3359335

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 3359334 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
3359275

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 3359274 tctgcaaaaagcatgcatctcggcgctatctcttg 3359240

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
Sbjct: 5137356 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
5137297

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
Sbjct: 5137296 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
5137237

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
Sbjct: 5137236 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
5137177

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
Sbjct: 5137176 ctctcattacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5137117

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
Sbjct: 5137116 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
5137057

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
Sbjct: 5137056 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
5136997

Query: 2003 actttattctcatgttgggtcttggaccgcccacattctgttccgtacaaaatcgccggt
2062
Sbjct: 5136996 actttattctcatgttgggtcttggaccgcccacattctgttccgtacaaaatcgccggt
5136937

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 5136936 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
5136877

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 5136876 acccctgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
5136817

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 5136816 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5136757

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 5136756 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
5136697

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

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Sbjct: 5136696 cattccatatactccgatttgcttctacttaggcgaaagccatgtgttctagagctcgt
5136637

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 5136636 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
5136577

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 5136576 tctgcaaaaagtatgcatctcggcgctatctcttg 5136542

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 24775955 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
24776014

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 24776015 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
24776074

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 24776075 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
24776134

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 24776135 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
24776194

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 24776195 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
24776254

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 24776255 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccggtacaccg
24776314

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 24776315 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
24776374

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 24776375 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
24776434

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

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Sbjct: 24776435 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
24776494

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 24776495 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
24776554

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 24776555 ataatatgggtctcctattttcacctttgagttagaaaccctccttcttttgttgaactta
24776614

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 24776615 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
24776674

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 24776675 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
24776734

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 24776735 tctgcaaaaagcatgcatctcggcgctatctcttg 24776769

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 44813069 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
44813010

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 44813009 tcaagtaccatacttctatctaaaccattaatttcgagatcctttttataacctctctt
44812950

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 44812949 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
44812890

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

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Sbjct: 44812889 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
44812830

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 44812829 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
44812770

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 44812769 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
44812710

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 44812709 actttatttctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
44812650

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 44812649 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
44812590

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 44812589 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
44812530

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 44812529 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
44812470

Query: 2243 ataatatggtctcctatattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 44812469 ataatatggtctcctatattttcacctctgagttagaaaccctccttcttttgttgaactta
44812410

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 44812409 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
44812350

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 44812349 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
44812290

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 44812289 tctgcaaaaagcatgcatctcggcgctatctcttg 44812255

Score = 1570 bits (792), Expect = 0.0
Identities = 810/815 (99%), Gaps = 2/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 10281285 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
10281344

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 10281345 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
10281404

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 10281405 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
10281464

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 10281465 cttctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
10281524

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 10281525 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
10281584

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 10281585 attttatcctgtcgagtcttaccacata--caccgcaacatcctcatctccgctacacct
10281642

Query: 2003 actttattctcatggttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 10281643 actttattctcatggttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
10281702

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 10281703 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
10281762

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 10281763 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
10281822

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

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Sbjct: 10281823 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
10281882

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 10281883 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
10281942

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 10281943 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagatcgt
10282002

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 10282003 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
10282062

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 10282063 tctgcaaaaagcatgcatctcggcgctatctcttg 10282097

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 12167989 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
12168048

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 12168049 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
12168108

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 12168109 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
12168168

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccc aaaccacctaagttctat
1882

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Sbjct: 12168169 ctctcactacagagtctaccggtcttctctctacatgccc aaaccacctaagttctat
12168228

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 12168229 tccaccatcttctctacgataggcgctactccaaccctctctctaatagcttcgtttcta
12168288

Query: 1943 attttatcctgtcgcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 12168289 attttatcctatctagtcttaccacacatccaccgcaacatcctcatctctgctacacct
12168348

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 12168349 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
12168408

Query: 2063 cttaccgcagtcgcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 12168409 cttaccgcagtcgcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
12168468

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 12168469 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
12168528

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 12168529 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
12168588

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 12168589 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
12168648

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 12168649 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
12168708

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 12168709 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
12168768

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 12168769 tctgcaaaaagcatgcatctcggcgctatctcttg 12168803

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 36469990 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
36470049

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 36470050 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
36470109

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 36470110 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
36470169

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 36470170 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagttctattt
36470229

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 36470230 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
36470289

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 36470290 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
36470349

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 36470350 actctatttctcatgttggctcttgaccgcccacattctgttcggtacaaaatcgccggt
 36470409

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 36470410 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 36470469

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

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 Sbjct: 36470470 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 36470529

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 36470530 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 36470589

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 36470590 gtaatatggtctcctattttcacctctgagttagaaaccctcattcttttgttgaactta
 36470649

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 36470650 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 36470709

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 36470710 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
 36470769

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 36470770 tctgcaaaaagcatgcatctcggcgctatctcttg 36470804

Score = 1552 bits (783), Expect = 0.0
 Identities = 809/815 (99%), Gaps = 2/815 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 30413160 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
30413101

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 30413100 tcaagtaccatacttctatccaaaccattaatttcgagatcctttt-gataacctctctt
30413042

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 30413041 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
30412982

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 30412981 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
30412922

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 30412921 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
30412862

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 30412861 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
30412802

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 30412801 actttattctcatgttgactcttgaccgccaacattctgttcggtacaaaatcgccggt
30412742

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 30412741 attaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
30412682

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 13288951 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
13288892

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 13288891 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
13288832

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 13288831 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
13288772

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 13288771 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
13288712

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 13288711 attttatcatgtcgagtcttaccacacatccactgcaacatcctcatctccgctacacct
13288652

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 13288651 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
13288592

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 13288591 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
13288532

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 13288531 accccgaagcttttccccatttcatccatcctgcttgaatgcgatgattcacatcccct
13288472

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 13288471 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
13288412

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 13288411 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
13288352

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 13288351 cattccatataactccgatttgcttctgcttaggtgaaagccatgtgtttctagagctcgt
13288292

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 13288291 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
13288232

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 13288231 tctgcaaaaagcatgcatctcggcgctatctcttg 13288197

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 17836948 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
17836889

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 17836888 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
17836829

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 17836828 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
17836769

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 17836768 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
17836709

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 17836708 tccaccatcttctctacaatagacgctactccaaccctctctctaataagcttcgtttcta
17836649

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 17836648 attttatcctgttgagtcttaccacacatctaccgcaacatcctcatctccgctacacct
17836589

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 17836588 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
17836529

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 17836528 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
17836469

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 17836468 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
17836409

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 17836408 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
17836349

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 17836348 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
17836289

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 28844645 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
28844704

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 28844705 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
28844764

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 28844765 actttattctcatggttggtccttgaccgccaacattctgttccatacaaaaatcgccggt
28844824

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 28844825 cttaccgcagtcgataaaaactttccctttatcttgatcggtacctttgcatcacataac
28844884

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 28844885 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
28844944

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 28844945 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgagga
28845004

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 28845005 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
28845064

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 28845065 cattccatatactccgatttgcttctgcttaggcgaaaacatgtgtttctagagctcgt
28845124

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 28845125 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
28845184

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 28845185 tctgcaaaaagcatgcatctcggcgctatctcttg 28845219

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 6282227 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
6282168

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 6282167 tcaaataatcatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
6282108

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822

|||||
Sbjct: 6282107 atagtctttttggatcttcctctgcctcgaattggttgcttctctccatctgggtctact
6282048

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 6282047 ctctcactacagagtctaccggttttctctctacatgcccaaactacctaagtctattt
6281988

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

|||||
Sbjct: 6281987 tccaccatcttctctacaataggcgctattccaaccctctctctaataagcttcggtttcta
6281928

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 6281927 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
6281868

Query: 2003 actttattctcatggttggtcttgaccgccaacattctgttcgtaaaaaatcgccggt
2062

|||||
Sbjct: 6281867 actttattctcatggttggtcttgaccgccaacattctgttcgtaaaaaatcgtcggt
6281808

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 6281807 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
6281748

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 6281747 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
6281688

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 6281687 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
6281628

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 6281627 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
6281568

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

|||||
Sbjct: 6281567 cattccatatacttcgatttgcttctgcttaggcgaaagccatgtatttctagagctcgt
6281508

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 6281507 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
6281448

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 6281447 tctgcaaaaagcatgcatctcggcgctatctcttg 6281413

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 44897141 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
44897200

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 44897201 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
44897260

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 44897261 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
44897320

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 44897321 ctctcactacagagtctactgggtcttctctctacatgcccaaaccacctaagttctaatt
44897380

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 44897381 tccaccatcttctctacaataggcactactccaaccctctctctaatagtctcgtttcta
44897440

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 44897441 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
44897500

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 44897501 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgat
44897560

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 44897561 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 44897620

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

|||||
 Sbjct: 44897621 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 44897680

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 44897681 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 44897740

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaaactta
 2302

|||||
 Sbjct: 44897741 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaaactta
 44897800

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 44897801 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 44897860

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 44897861 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 44897920

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 44897921 tctgcaaaaagcatgcatctcggcgctatctcttg 44897955

Score = 1521 bits (767), Expect = 0.0
 Identities = 803/815 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 38187319 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 38187378

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 38187379 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
38187438

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 38187439 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
38187498

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 38187499 ctctcactacagagtctaccagtcttctctctacatgcccaaaccacctaagtctattt
38187558

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 38187559 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
38187618

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 38187619 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38187678

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 38187679 actttagtctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgctcggt
38187738

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 38187739 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
38187798

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 38187799 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
38187858

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 38187859 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
38187918

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 38187919 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
38187978

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 38187979 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
38188038

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 38188039 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
38188098

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 38188099 tctgcaaaaagcatgcatctcggcgctatctcttg 38188133

Score = 1517 bits (765), Expect = 0.0
Identities = 804/817 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 5047734 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
5047675

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 5047674 tcaagtatcatacttctatccaaatcatthaagttcgagatcctttttgataacctctctt
5047615

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 5047614 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
5047555

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 5047554 ctcttcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5047495

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 5047494 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
5047435

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 5047434 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
5047375

Query: 2003 actttattctcatgttggtcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 5047374 actttattctcatgttggtcttgaccgccccaacattctgttcggtacaaaatcgctggt
5047315

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 5047314 cttaccgcagtcgataaaaactttcccttttagcttgatcagttacctttgcatcacataac
5047255

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 5047254 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
5047195

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 5047194 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5047135

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 5047134 ataatatggtctcctatctttcacctctgagttagaaaccctccttcttttgttgaactta
5047075

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 5047074 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgt
5047015

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 5047014 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
5046955

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttgaa 2459

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Sbjct: 5046954 tctgcaaaaagcatgcatctcgaagctatctcttgaa 5046918

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 19337292 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
19337351

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 19337352 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
19337411

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 19337412 atagtctttttaggtcttctctgtctcgaattgtttgccttctctccatctggtctact
19337471

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 19337472 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
19337531

Sbjct: 19337952 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgttttagagctcgt
19338011

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 19338012 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
19338071

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 19338072 tctgcaaaaagcatgcatctcggcgctatctcttg 19338106

Score = 1493 bits (753), Expect = 0.0
Identities = 802/817 (98%), Gaps = 1/817 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 4229162 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
4229103

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 4229102 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
4229043

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 4229042 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgatctact
4228983

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 4228982 cttctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
4228923

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
1942

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Sbjct: 4228922 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtccggttcta
4228863

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 4228862 attttatcctgtcgagtcttaccacacatccacctcaacatcctcatctccactacacct
4228803

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 4228802 actttagtctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
4228743

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 4228742 ctta-cgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
4228684

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 4228683 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
4228624

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 4228623 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagag
4228564

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 4228563 ataatatgggtctcctattttccctctgagttagataccctcctacttttgttgaactta
4228504

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 4228503 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
4228444

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 4228443 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
4228384

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttgaa 2459

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Sbjct: 4228383 tctgcaaaaagcatgcatctcggcgctatctcttgaa 4228347

Score = 1473 bits (743), Expect = 0.0
Identities = 797/815 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 18162602 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
18162661

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 18162662 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
18162721

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 18162722 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
18162781

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882
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Sbjct: 18162782 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
18162841

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
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Sbjct: 18162842 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtccgtttcta
18162901

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 18162902 attttatcctgtcaagtcttaccacacatccactgcaacatcctcatctccgctacacct
18162961

Query: 2003 actttattctcatgttgggtctttgaccgcccacatttctgttccgtacaaaatcgccgggt
2062
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Sbjct: 18162962 actttagtctcatgttgggtctttgactgcccacatttctgttccgtacaaaatcgccgggt
18163021

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 18163022 cttaccgcagtcgaatagaactttccctttagcttgatcggtacctttgcatcacataac
18163081

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 18163082 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
18163141

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 18163142 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
18163201

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 18163202 ataatatggtctcctattttcacctctgagttagataaccctcctacttttgttgaactta
18163261

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18163262 cattccatatactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
18163321

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18163322 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18163381

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 18163382 tctgcaaatagcatgcatctcggtgctatctcttg 18163416

Score = 1467 bits (740), Expect = 0.0
Identities = 788/804 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 13632946 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
13632887

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 13632886 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
13632827

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

Sbjct: 13632826 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
13632767

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 13632766 ctctcactacagagtctatcggtcttctctctacatgcccaaaccacctaagtctattt
13632707

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

Sbjct: 13632706 tccaccatcttctctacaataagcgctactccaaccctctctctaataagcttcgtttcta
13632647

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 13632646 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
13632587

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

Sbjct: 13632586 actttagtctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
13632527

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 13632526 cttaccgtagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
13632467

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

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Sbjct: 13632466 acccccgatgcttttctccatttcattctgcttgaatgcatgattcacattccct
13632407

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 13632406 tcaatttcttcatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
13632347

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 13632346 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
13632287

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 13632286 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
13632227

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

||||| |
Sbjct: 13632226 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
13632167

Query: 2423 tctgcaaaaagcatgcatctcggc 2446

||| |
Sbjct: 13632166 tctacaaaaagcatgcatctcggc 13632143

Score = 1457 bits (735), Expect = 0.0

Identities = 744/747 (99%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 44820127 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
44820186

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

||||| |
Sbjct: 44820187 tcaagtaccatacttctatctaaaccattaatttcgagatcctttttgataacctctctt
44820246

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 44820247 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
44820306

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 44820307 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
44820366

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 44820367 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
44820426

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 44820427 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
44820486

Query: 2003 actttattctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 44820487 actttattctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
44820546

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 44820547 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
44820606

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 44820607 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
44820666

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 44820667 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
44820726

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 44820727 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
44820786

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 44820787 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
44820846

Query: 2363 ctccaagtttccaacctctcattcaac 2389

|||||
Sbjct: 44820847 ctccaagtttccaacctctcattcaac 44820873

Score = 1273 bits (642), Expect = 0.0
Identities = 666/674 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 9870236 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
9870177

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 9870176 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
9870117

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 9870116 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
9870057

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 9870056 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
9869997

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

|||||

Sbjct: 9869996 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 9869937

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 9869936 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 9869877

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 9869876 actttattctcatgttggctcttgatcgcccacattctgttccgtacaaaatcgccggt
 9869817

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 9869816 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 9869757

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
 2182

|||||
 Sbjct: 9869756 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
 9869697

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 9869696 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 9869637

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 2302

|||||
 Sbjct: 9869636 ataatatggtctcctattttcacctctgagttagaaaccctcggttcttttggtgaactta
 9869577

Query: 2303 cattccatatactc 2316

|||||
 Sbjct: 9869576 cattccatatactc 9869563

Score = 1215 bits (613), Expect = 0.0
 Identities = 658/669 (98%), Gaps = 3/669 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 6522561 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
6522620

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 6522621 tcaagtaccataacttctatccaaatcattaagtttgagatcctttttgataacctctctt
6522680

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 6522681 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
6522740

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 6522741 ctccctcactacagagtctaccggtcttctctctacatacccaaaccacctaagtctattt
6522800

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

| |||||
Sbjct: 6522801 ttcaccatcttctctacaatagggtgctactccaaccctctctctaatagtcttcgtttcta
6522860

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 6522861 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
6522920

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 6522921 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
6522980

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 6522981 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
6523040

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
2182

|||||

Sbjct: 6523041 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
6523100

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatattt-aaaccgtgtgacttgagg
2241

|||||

Sbjct: 6523101 tcaatttctccatcatcctgtattacagaccaagatattttaaaccgtgtgacttgagg
6523160

Query: 2242 gataatat-ggtctcctattttcacctctgagttagaaaccctccttc-ttttggtgaac
2299

|||||

Sbjct: 6523161 gataatatgggtctcctattttcacctctgagttagaaaccctccttccttttggtgaac
6523220

Query: 2300 ttacattcc 2308

|||||

Sbjct: 6523221 ttacattcc 6523229

Score = 1035 bits (522), Expect = 0.0
Identities = 540/546 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 4448366 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
4448425

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
1762

|||||

Sbjct: 4448426 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
4448485

Query: 1763 atagtcttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 4448486 atagtcttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
4448545

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||

Sbjct: 4448546 ctctcactacagagtctaccggtcttctctctacatgccaaaaccacctaagtctattt
4448605

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 4448606 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
4448665

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 4448666 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
4448725

Query: 2003 actttattctcatgttggtctttgaccgcccacattctgttcgctacaaaatcgccggt
2062

|||||
Sbjct: 4448726 actttagtctcatgttggtctttgaccgcccacattctgttcgctacaaaatcgccggt
4448785

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 4448786 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
4448845

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 4448846 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
4448905

Query: 2183 tcaatt 2188

|||||
Sbjct: 4448906 tcaatt 4448911

Score = 886 bits (447), Expect = 0.0
Identities = 450/451 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 8290240 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
8290181

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 8290180 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
8290121

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 8290120 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
8290061

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 8290060 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
8290001

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

|||||
Sbjct: 8290000 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
8289941

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 8289940 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
8289881

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttcggtacaaaatcgccgggt
2062

|||||
Sbjct: 8289880 actttattctcatgttgggtcttgaccgcccacattctgttcggtacaaaatcgccgggt
8289821

Query: 2063 cttaccgcagtcgataaaaactttcccttta 2093

|||||
Sbjct: 8289820 cttaccgcagtcgataaaaactttcccttta 8289790

Score = 823 bits (415), Expect = 0.0
Identities = 430/435 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactagggtgggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
 Sbjct: 26062616 aacgccttatccactaggtggggtcggctacatggatcaacttcgccataatgttcta
 26062675

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 26062676 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 26062735

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 26062736 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
 26062795

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 26062796 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 26062855

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

|||||
 Sbjct: 26062856 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 26062915

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 26062916 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 26062975

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 26062976 actttattctcatgttgggtcttgaccgccaacattctgttccgtataaaaatcgccggt
 26063035

Query: 2063 cttaccgcagtccga 2077

|||||
 Sbjct: 26063036 cttaccgcagtccga 26063050

Score = 807 bits (407), Expect = 0.0
 Identities = 452/467 (96%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 37684897 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatatttta
37684838

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 37684837 tcaagtaccatacttctatacaaattattaagttcgagatccttcttgataacctctctt
37684778

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 37684777 atagtctttttgggtcttcctctgtctcgaattgtttgccttctctccatctggtctact
37684718

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 37684717 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
37684658

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 37684657 tccatcatcttctctacaataggcgctactccaaccctctctctaatagtccgtttcta
37684598

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 37684597 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
37684538

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 37684537 actttagtctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgat
37684478

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctt 2109

|||||
Sbjct: 37684477 cttaccgcaatccgataaaaactttcccttttagcttgatcggtacctt 37684431

Score = 587 bits (296), Expect = e-164
Identities = 302/304 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 40528929 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
40528988

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 40528989 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
40529048

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 40529049 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40529108

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882
|||||
Sbjct: 40529109 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
40529168

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
|||||
Sbjct: 40529169 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
40529228

Query: 1943 attt 1946
||||
Sbjct: 40529229 attt 40529232

Score = 579 bits (292), Expect = e-162
Identities = 313/320 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||

Sbjct: 39178478 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgtccta
39178537

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 39178538 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
39178597

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 39178598 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
39178657

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

|||||
Sbjct: 39178658 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
39178717

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 39178718 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
39178777

Query: 1943 attttatcctgtcgagtctt 1962

|||||
Sbjct: 39178778 attttatcctgtcgagtctt 39178797

Score = 555 bits (280), Expect = e-155

Identities = 286/288 (99%)

Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 32761523 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
32761464

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 32761463 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
32761404

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 32761403 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
32761344

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 32761343 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
32761284

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaata 1930
|||||
Sbjct: 32761283 tccaccatcttctctacaataggcgctactccaaccatctctcaaata 32761236

Score = 434 bits (219), Expect = e-118
Identities = 243/251 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 17893527 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17893468

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 17893467 tcaagtatcatacttctatccaaatcatthaagttcgagatccttcttgataacctctctt
17893408

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 17893407 atagtctttttgggtcttcctctgcctcgaattgtttgccttcactccatctggtctact
17893348

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 17893347 ctctcactacacagtctaccggtcttctctctacatgctcaaaccacctaagtctattt
17893288

Query: 1883 tccaccatctt 1893
|||||

Sbjct: 17893287 tccaccatctt 17893277

Score = 307 bits (155), Expect = 2e-80
Identities = 173/179 (96%)
Strand = Plus / Plus

Query: 1647 ccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatcaa
1706

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Sbjct: 44387390 ccttatctcactaggtggggtcggctacatggatcaacttccgccataatgttctatcaa
44387449

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
1766

||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 44387450 gtaccatacttctatccaaatcattaagtctgagattctttttgataacctctcttatag
44387509

Query: 1767 tctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctactctc
1825

| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 44387510 tttttttggatcttctctgcctcgaattgtttgtcttctctccatctggtctactctc
44387568

Score = 272 bits (137), Expect = 9e-70
Identities = 143/145 (98%)
Strand = Plus / Minus

Query: 2313 actccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagttt
2372

|||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 9861155 actctgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgtctccaagttt
9861096

Query: 2373 ccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaa
2432

||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 9861095 ccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaa
9861036

Query: 2433 gcatgcatctcggcgctatctcttg 2457

||||| ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 9861035 gcatgcatctcggcgctatctcttg 9861011

Score = 270 bits (136), Expect = 4e-69
Identities = 142/144 (98%)
Strand = Plus / Plus

Query: 2314 ctccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttc
2373
|||||
Sbjct: 6523344 ctccgatttgcttctgcttaggcgaaaacatgtgtttctagagctcgtctccaagtttc
6523403

Query: 2374 caacctctcattcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaag
2433
|||||
Sbjct: 6523404 caacctctcattcaactcctccctcaactctccaaggaggactatgtcatctgcaaaaag
6523463

Query: 2434 catgcatctcggcgctatctcttg 2457
|||||
Sbjct: 6523464 catgcatctcggcgctatctcttg 6523487

Score = 240 bits (121), Expect = 3e-60
Identities = 137/141 (97%), Gaps = 1/141 (0%)
Strand = Plus / Minus

Query: 1960 cttaccacacatccaccgcaacatcctcatctccgctacacctactttattctcatgttg
2019
|||||
Sbjct: 1341489 cttatcacacatccaccgcaacatcctcatctccgctacacctactttagtctcatgttg
1341430

Query: 2020 gctcttgaccgccaacattctgttccgtacaaaatcgccggtcttaccgcagtcgata
2079
|||||
Sbjct: 1341429 gctcttgaccgccaacattctgttccgtac-aaatcgccggtcttaccgcagtcgata
1341371

Query: 2080 aaactttcccttttagcttgat 2100
|||
Sbjct: 1341370 aaactttcccttttagcttgat 1341350

Score = 224 bits (113), Expect = 2e-55
Identities = 241/276 (87%), Gaps = 7/276 (2%)
Strand = Plus / Minus

Query: 1831 ta 1832

|||||
Sbjct: 2409290 aattacaaaatatatataaaaattacaaacaatagaacaaaatatttaaatttgaaacaat
2409349

Query: 6603 acaacaaaaatttttaaatacaaaacaatatggcataaaattaatgttgttggcctgagcc
 6662
 |||||
 Sbjct: 2409350 acaacaaaaatttttaaatacaaaagaatatgatataaatttaacattgttggcttgagct
 2409409

Query: 6663 tacac 6667
 |||||
 Sbjct: 2409410 tacac 2409414

Score = 208 bits (105), Expect = 1e-50
 Identities = 204/236 (86%), Gaps = 2/236 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 1255045 aaaattaattgttacaaaatttattatgtatatttacttgtgcattaaatatacattaga
 1255104

Query: 5177 aattttagtggttatattttagtgaaattaattatttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 1255105 aattttagtggttatatatattgacattaattatttataatattattgacctattagttt
 1255164

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 1255165 agttagtagagcattgtgttaataattttaaagacacatgttggattcttacttgaacc
 1255224

Query: 5297 attaatTTTaaattaatttGTaaaatatatTTTtgaa--aaaaaaattataaaaaa 5350
 |||||
 Sbjct: 1255225 attaatTTTaaatttattcGTaaaacatatTTTtgaaagaaaaaaattataaaaaa
 1255280

Score = 194 bits (98), Expect = 2e-46
 Identities = 149/166 (89%)
 Strand = Plus / Minus

Query: 6497 aaaaatatatatTTTaaactgacaagttgacttgaactaaaatatTTTaaattacaaaataga
 6556
 |||||

Sbjct: 25180141 aaaaaaatatatatttaaccaacaagttgaattgaactaaaatatttaaattataaaataga
25180082

Query: 6557 tatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaaaatttt
6616

|||||
Sbjct: 25180081 tataaaattacaaaaaatagaataaaaatatttaaatttgaaacaatacaacaaaaattttt
25180022

Query: 6617 aaaatacaaaacaatatggcataaaaattaatgttggtggcctgagcc 6662

|||||
Sbjct: 25180021 aaaatagaaagaatatgtcataaacttaacgttggtgacttgagcc 25179976

Score = 188 bits (95), Expect = 1e-44
Identities = 95/95 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 27873724 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
27873783

Query: 1703 tcaagtaccatacttctatccaaaccattaatttc 1737

|||||
Sbjct: 27873784 tcaagtaccatacttctatccaaaccattaatttc 27873818

Score = 186 bits (94), Expect = 4e-44
Identities = 184/214 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 19010213 aaaattaattgtcacaaaatttattatctaaatttacatgcgcattaaatatatattaga
19010272

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 19010273 aattgtagtggttatatataacgacattaattattttataatataattgacctattaactc
19010332

```
Query: 1643      aacgccttatccactaggtggggctgggctacatggatcaacttccgccataatgttcta
1702            |||
Sbjct: 37869340 aacgccttatctcactaggtggggctgggctacatggatcaacttccaccataatgttcta
37869399
```

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagat 1742
 ||||||||||||||||||||||||||||||||||||
Sbjct: 37869400 tcaagtaccatacttctatccaaaccattaatttcgagat 37869439

Score = 176 bits (89), Expect = 4e-41
Identities = 362/449 (80%), Gaps = 8/449 (1%)
Strand = Plus / Minus

Query: 6849 aatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagttccta
6908
 ||||||||||||| ||| ||| ||||| || | ||||||||| ||||||||| |||||
Sbjct: 20796058 aatcatttgtacacggtg-agacactttccaacatatacacatgatgtatgtaattccta
20796000

Query: 6909 tactcatgggtgagcatgcttataaacaacaaca---tgagaacaaaacatgtgcattttt
6965
 ||||| ||||||| ||||||||| ||||||||| ||| || | ||||||||| |||||
Sbjct: 20795999 tactcgtgggtgagtatgcttataagcaacaacaatatgaaaataagacatgtgcattttt
20795940

Query: 6966 tgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaatttctcactagt
7025
 | ||| ||||||||||||| || ||| | || | | ||||||||||||| || ||
Sbjct: 20795939 tataatatgtcacagtcacatcactttttaccagtcctaatcatgaaatttctaacgggt
20795880

Query: 7026 tgaatctctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcga
7085
 || |||| ||| ||||||||||||| ||||||||||||| ||||| | | ||| |
Sbjct: 20795879 caaacctctatct--agttaattgtcttaagactaagaattatatgttgtaagatcaa
20795822

Query: 7086 actcaagaacaatgtgagagtttgcccttttctgtatgtctttcatagccttggttaata
7145
 ||||||||| ||||||||||||| ||||||||| | || | ||||||||||||| | ||
Sbjct: 20795821 actcaagaataatgtgagagtttgctttttctatgcgttttccatagccttgctcgga
20795762

Query: 7146 cttttgtataaaacttcaccaaagttaatcactcttgcgacttctctccccctttggttga
7205
 ||| ||||||||| ||| ||||||||| | ||| ||||||||||||| |||||||||
Sbjct: 20795761 cttgcatataaaacttgcccatatgtaatcattgttggtgacttctctccccctttggttga
20795702


```
Query: 5235          tcagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggga
5294                |||
Sbjct: 40244616      tcagttggttagagaattgtgttaataatgcaaaagtcacaagtttgatttctgctttga
40244557
```

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaa 5339
 |||||
Sbjct: 40244556 ccattaatttttaaattaatttcgtaaatatatatttttgaaaaaaa 40244512

Score = 174 bits (88), Expect = 2e-40
Identities = 160/183 (87%), Gaps = 2/183 (1%)
Strand = Plus / Minus

Query: 6485 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa
6544
 |||||
Sbjct: 1463562 taattgaaataaaaaataaacatatatttaaccaacaagttgaattgaactaaaatattttaa
1463503

Query: 6545 ttacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataatac
6604
 || |||||
Sbjct: 1463502 ttgtaaaatagatatataaaattacaaacaataaaacaaaataatttaaatttgaaacaatac
1463443

Query: 6605 aacaaaaatttttaaatacaaaacaatatggcataaaattaatgttgttgacctgagccta
6664
 ||||| |||||
Sbjct: 1463442 aacaaagcttttttaaatacaaaacaatatg--acaaacttaacattgttggcttgagccta
1463385

Query: 6665 cac 6667
 |||
Sbjct: 1463384 cac 1463382

Score = 172 bits (87), Expect = 7e-40
Identities = 199/235 (84%), Gaps = 1/235 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 |||||
Sbjct: 40272853 aaaattaattgttacaaaatttattatgtagatttacatatgcattaaatatacattaga
40272912

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| ||||| ||||| |||||

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 4402272 aaaattaattgtcacaaaatttattatttaaatttacatgcatattaaatatacattaga
4402213

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 4402212 aatttttagtattatatatagcaacattatttatttcataacataattgagttattaactt
4402153

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||||
Sbjct: 4402152 agttggtagagctttgtgttaaca---tgaaagtcataagttcgacttttgcttaagcc
4402096

Query: 5297 attaatTTTaaattaatttGTaaaatatattttTgaaaaaaaaa 5340
|||||
Sbjct: 4402095 attaatTTTaaattaatttGTaaaacatatattttTgaaagaaaaa 4402052

Score = 169 bits (85), Expect = 1e-38
Identities = 136/153 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 30689948 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatacattaga
30689889

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 30689888 aatttttagtggttatatatagcgacattaactattttataacataattgttctattacctc
30689829

Query: 5237 agttggtagagcattatgttaataatgtgaaa 5269
|||||
Sbjct: 30689828 agttggtaaagtattgtgttaataatgtgaaa 30689796

Score = 167 bits (84), Expect = 4e-38
Identities = 162/188 (86%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
 5175

||||| | ||||||| ||||||| ||| || ||||||| ||
 Sbjct: 41735463 aaaaattaattatcacaaaatttattatgtaaatttacatgtgcattaaatatacatag
 41735404

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235

||||| ||||| ||||| ||||||| ||||||| | ||||| |
 Sbjct: 41735403 aaatttttagtattatatatagtgacattaattattttataacataattgggtctattagct
 41735344

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggt
 5295

||||| || ||||||| ||||||| | || ||||| || ||
 Sbjct: 41735343 tagttgggttagaatgttggttaataatgcgaaagtcgtaggtttaattcttggttagat
 41735284

Query: 5296 cattaatt 5303

|||||
 Sbjct: 41735283 cattaatt 41735276

Score = 159 bits (80), Expect = 1e-35
 Identities = 277/342 (80%), Gaps = 3/342 (0%)
 Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattccttggatatccattttgggtgtgt
 6737

||||| || || ||||||| ||||| ||||| ||||| |||||
 Sbjct: 1463349 atgcgacacatgaaatattggtttgggtttactcaattctcggatatcaatttcgatgtgt
 1463290

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
 6797

||||| ||||||| ||||||| ||||||| | | || | |||||
 Sbjct: 1463289 atacgagaggagacatgatgacctttagaatttcttttcttctcttagtcagtgcaaatt
 1463230

Query: 6798 cttggcttgtagacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
 6857

|||| || ||||| || ||||| ||||| |||| |||| | || |||||
 Sbjct: 1463229 cttgactcatgacacggttaaccaatatgctatggtgcgtaattctctaacaatcatttg
 1463170

Query: 6858 tacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
6917

 || | ||| ||| |||| | | ||||| | | ||||| | | | ||||| |
Sbjct: 1463169 tatacgttgagacactttccaacgtatacataggatgtatgtattccatataactcatgg
1463110

Query: 6918 tgagcatgcttataaac---aacaacatgagaacaaaacatgtgcattttttgaaatttg
6974

 ||||| | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 1463109 tgagcatgcttacaagcagtaacaacaagagaacaagacatgtgcactttttggaatttt
1463050

Query: 6975 tcacagtcacactacctttcatctagcttgaccatgaaattt 7016

 |||| | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 1463049 tcacattcacaccacttttgatccagcttgatcatgaaattt 1463008

Score = 159 bits (80), Expect = 1e-35
Identities = 195/232 (84%), Gaps = 1/232 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

 ||||| | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 21124830 aaaattaattatcacaaaatttattatgtatatttacatgtgtattaaatatacatta-a
21124772

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

 ||||| | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 21124771 aatttttagtggttatatatattgacattaattattttataatattattgacttattagctt
21124712

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcctacttggtatc
5296

 ||||| | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 21124711 agttgggttaaagcactataactaataacttgaaagttacaagttcaattttaatttagatc
21124652

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaa 5348

 ||||| | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 21124651 attaatttttaaattaatttcataaaacatatatttttttaaaaaaaattataaaa 21124600

Score = 151 bits (76), Expect = 2e-33
Identities = 236/290 (81%), Gaps = 7/290 (2%)
Strand = Plus / Minus

Query: 7426 cagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattac
 7485

|||| |||||||||||||| |||| |||||| |||||||||||||||||| ||| |
 Sbjct: 12595320 cagtaatacaacaatgaaaaacatacatgatgactacaaatcattaaataataaaatagc
 12595261

Query: 7486 aatcaaataatttggggaggggg-----tcttcaaaacttgattcaagggttcattgta
 7538

|||||||||| |||| | |||| | |||||||||| |||||||| ||||||||
 Sbjct: 12595260 aatcaaataaattggtgggggggggggggttcttcaaaactcgattcaagattcattgtt
 12595201

Query: 7539 tcatcgagggtattcacccaaaccctccaaattcaaagagcttgcagaaactggtggtggt
 7598

|||| ||||| || | ||| |||||||||||||| |||||||||| ||||||||
 Sbjct: 12595200 tcattgagggtgttaataataaatcctccaaattcaaagaccttgcagaaattggtggtgga
 12595141

Query: 7599 tgtgcatatgtttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaag
 7658

|||| | |||||| |||||| |||| | ||| ||| ||| ||| ||| ||| ||| |
 Sbjct: 12595140 tgtgtacatgtttgtgtgggtttgtttgtagtggtaatatataacttaaggcttgtgagg
 12595081

Query: 7659 ttgaagagtttcccaaatatagaaaacatagtaattatttcctcatcatc 7708

||| | |||||| || |||||||||||||| || | ||||||||||
 Sbjct: 12595080 ttggaaagtttctgaacatagaaaacatagtcataacgtcctcatcatc 12595031

Score = 151 bits (76), Expect = 2e-33
 Identities = 76/76 (100%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
 1702

||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 27437933 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
 27437874

Query: 1703 tcaagtaccatacttc 1718

||||||||||||||
 Sbjct: 27437873 tcaagtaccatacttc 27437858

Score = 149 bits (75), Expect = 1e-32

Query: 4877 aagtttttcttttatttttatt 4898
 |||||
Sbjct: 30540408 aagtttttcttttatttttatt 30540387

Score = 145 bits (73), Expect = 1e-31
Identities = 113/125 (90%), Gaps = 1/125 (0%)
Strand = Plus / Minus

Query: 4893 tttattttgttcctattcaattctaattttgtcatttttt-tcactgtctctcgtacttc
4951
 ||||| | |||||
Sbjct: 30540374 tttattctcttcctattcaattctaattctgtctctctttctcattgtctctcgtacttc
30540315

Query: 4952 tctgtcttctcacctgtttcttcagtttacttgattattattttactttgatacattagc
5011
 | |||||
Sbjct: 30540314 tatgtcttctcacctgttcttcagtttacttgattattgtttcactttgacacattagc
30540255

Query: 5012 caata 5016
 |||||
Sbjct: 30540254 caata 30540250

Score = 143 bits (72), Expect = 6e-31
Identities = 81/84 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||| |
Sbjct: 3246827 aacgtcttatcccactaggtgggggtcggctacatgaatcaacttccgccacaaatgttcta
3246768

Query: 1703 tcaagtaccatacttctatccaaa 1726
 |||||
Sbjct: 3246767 tcaagtaccatacttctatccaaa 3246744

Score = 139 bits (70), Expect = 9e-30
Identities = 166/198 (83%)
Strand = Plus / Minus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
 7101
 ||||| ||| | ||||| ||| | ||||| ||| || ||||| ||||| |||||
 Sbjct: 1462984 gttaattatctcttgactaagaattatgtgtcgcacgattgaactcaagaacaatgtg
 1462925

Query: 7102 agagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgtataaaacttc
 7161
 | ||||| ||| | ||| ||||| ||| ||||| ||| ||||| |||||
 Sbjct: 1462924 aaagtttgtctttctttgtgctctttcatagttttgtttagtacttgtgtataaaacttg
 1462865

Query: 7162 accaaatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacct
 7221
 | ||||| ||| | || | ||||| ||| ||||| ||||| ||||| |||||
 Sbjct: 1462864 gtcgaatgtaatcattgctacaatttctctccccctttggttgaacaatgcattacacct
 1462805

Query: 7222 agtatagggtgattttac 7239
 || ||||| ||||| |||||
 Sbjct: 1462804 tgtttaggtgattttac 1462787

Score = 139 bits (70), Expect = 9e-30
 Identities = 127/146 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 38847006 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatattaga
 38847065

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| ||||| || | ||| ||||| ||||| ||||| ||||| ||
 Sbjct: 38847066 aatttttgtgttatataataaacattatttattttataatgtaattgacttattagctc
 38847125

Query: 5237 agttggtagagcattatgttaataa 5262
 | ||||| ||||| ||||| ||||| |||||
 Sbjct: 38847126 aattggtagaacattatgttaataa 38847151

Score = 139 bits (70), Expect = 9e-30
 Identities = 127/146 (86%)

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaat-aaatatacattag
5175

Sbjct: 26097541 aaatttttagtattatatataacgacattaattattttataaca-----ctattagct
26097592

Sbjct: 26097593 cagttggttagaatatcgtgctaatagcgtgcaagtcacagggttgattcttgcacatgggc
26097652

```
Query: 5296      cattaatttttaaattaattttgtaaaatatatttttgaaaaaa 5337
               |||||||||||||||||||||||||||||||||||
Sbjct: 26097653 cattaatttttaaattaattttgtaaaaaatatatttttgaaaaaa 26097694
```

Score = 137 bits (69), Expect = 4e-29
Identities = 153/181 (84%)
Strand = Plus / Minus

Sbjct: 26177340 aatttattatataaatttacatgtgcattaaatatacattaaaaatttttagtattatatg
26177281

Sbjct: 26177280 tagtgacattaattatTTTataacacaattgatttattagcttagttgattagaatgtta
26177221

Sbjct: 26177220 catcaataatgtaaaagtcacatgatcgattcctacttgaattattaattttaaattaat
26177161

```
Query: 5314      t 5314
      |
Sbjct: 26177160 t 26177160
```

Score = 137 bits (69), Expect = 4e-29
Identities = 135/157 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
 ||||| | ||||| | ||||| ||| || ||||| |
Sbjct: 38011202 aaaattaattgtcataaaatttattatgtaaatttacatgtgcattaaataacattaga
38011143

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |
Sbjct: 38011142 aattttatttttatatatagtgacattaattattttataacataatcgacttattagctt
38011083

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273
 | ||||| | || ||||| | |||||
Sbjct: 38011082 aattggtagaacgttgtgttaataatgcaaaagtca 38011046

Score = 135 bits (68), Expect = 1e-28
Identities = 134/156 (85%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaataacattag
5175
 ||||| | ||||| | ||||| | ||||| ||| || ||||| |
Sbjct: 3901862 aaaaattaattattacaaaatttattatgtaaatttacatatgcattaaataacattag
3901921

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 ||||| | || ||| || | ||||| | ||||| ||| | ||||| |
Sbjct: 3901922 aaatttttagtattttatatagcgacattaattattctataacagaattagtttattagtt
3901981

Query: 5236 cagttggtagagcattatgttaataatgtgaaagt 5271
 ||||| ||||| || ||||| | |||||
Sbjct: 3901982 cagttgattagagtgttgtgttaataatgcgaaagt 3902017

Score = 135 bits (68), Expect = 1e-28
Identities = 180/216 (83%), Gaps = 1/216 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 31620212 aaaattaattgtcacaaaattgattgtgtaaatttacatgtgcattaaatctacaataaa
 31620153

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

| |||||
 Sbjct: 31620152 attttttagtggttatatatagtaacattaattatcttataacataattagtttattagctc
 31620093

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggtac
 5296

|||||
 Sbjct: 31620092 agttggtagagcatcatactaataatacgaagttacaagtttgattcttgcacatggacg
 31620033

Query: 5297 attaatttttaaattaatttgtaaaatatatttttga 5332

|||||
 Sbjct: 31620032 gttaatttttaaattaa-ttgtaaaacataatttttga 31619998

Score = 135 bits (68), Expect = 1e-28
 Identities = 128/148 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 32026284 aaaattaattatcacaaaatttattatgtaaacttatatgtgcattaaatatacattata
 32026343

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 32026344 aatttttagtattatatatagtgatattaattattttataacataataagtttattagttc
 32026403

Query: 5237 agttggtagagcattatgttaataatg 5264

|||||
 Sbjct: 32026404 agttggtagagtgttatgttaataatg 32026431

Score = 135 bits (68), Expect = 1e-28

Identities = 134/156 (85%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcatacacaataaatatacattag
5175
 ||||| || ||||| ||||| ||||| || || ||||| |||||
Sbjct: 35503294 aaaaattaatagtcacaaaatttattatgtaaatttacatgtgcattaaatatacattat
35503235

Query: 5176 aaat t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t
5235
 ||||| || || ||||| ||||| ||||| || || || || || || || || || || || || || || || ||
Sbjct: 35503234 aaat t t t t a g t g t t a t a t a t a g c g a c a t t a a t t a t t t t a t a a c a t a a t t a t c c t a t t a c c t
35503175

Query: 5236 c a g t t g g t t a g a g c a t t a t g t t a a t a a t g t g a a a g t 5271
 ||||| || || || || || || || || || || ||
Sbjct: 35503174 c a g t t g g t t a g a a c g t c a t g c t a a t a a c g t g a a a g t 35503139

Score = 131 bits (66), Expect = 2e-27
Identities = 126/146 (86%)
Strand = Plus / Minus

Query: 5117 a a a a t t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a t a t a c a t t a g a
5176
 ||||| || || ||||| ||||| || || || || || || || || || || || || || || || || || || || || || ||
Sbjct: 2586412 a a a a t t a a t t g t t a t a a a a t t t a t t a t g t a a a c t t a t a t g t g t a t t a a t a t a c a t t a g a
2586353

Query: 5177 a a t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236
 ||||| || || ||||| ||||| ||||| || || || || || || || || || || || || || || || ||
Sbjct: 2586352 a a t t t t a g t g t t a t a t a t a g c g a c g t t a a t t a t t t t t t a a c a t a a t t a a t c t a t t a g t t c
2586293

Query: 5237 a g t t g g t t a g a g c a t t a t g t t a a t a a 5262
 |||| ||||| || || || || || ||
Sbjct: 2586292 a g t t a g t t a g a t a t c a t g c t a a t a a 2586267

Score = 131 bits (66), Expect = 2e-27
Identities = 126/146 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
|||||
Sbjct: 7114646 aaaattaattgcaacaaaatttattatttaaatttacatgcgcattaaataacattaga
7114587

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 7114586 aatttttagtggttatgtataataacattatttattttataatgtaattgacttattagttc
7114527

Query: 5237 agttggtagagcattatgttaataa 5262
| |||||
Sbjct: 7114526 aattggtagagcggttgcttaataa 7114501

Score = 131 bits (66), Expect = 2e-27
Identities = 126/146 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
|||||
Sbjct: 17774221 aaaattaattgtcataaaaatttcttatgtaaatttaaattgtgcattaaataacattaaa
17774162

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 17774161 aatttttagtggttatataacgatattaattattttataacataattgatctattaattc
17774102

Query: 5237 agttggtagagcattatgttaataa 5262
| |||||
Sbjct: 17774101 aattggtagaacgtcatgttaataa 17774076

Score = 131 bits (66), Expect = 2e-27
Identities = 136/158 (86%), Gaps = 1/158 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacatt-ag
5175
|||||
Sbjct: 44673622 aaaattaattgttacaaaatttattatctaaatttcatgcgcattaaataacattaaa
44673681

Query: 5176 aaat t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t
5235

|||||
Sbjct: 44673682 aaaat t t a g t g t t a c a t a t a g c a a t a t t a a t t a t t t t a t a a c a t a a t t a g t c t a g t a a t t
44673741

Query: 5236 c a g t t g g t t a g a g c a t t a t g t t a a t a a t g t g a a a g t c a 5273

|||||
Sbjct: 44673742 c a g t t g g t t a g a a t g t t g t g t t a a t a a c g c g a a a g t c a 44673779

Score = 129 bits (65), Expect = 9e-27
Identities = 176/213 (82%)
Strand = Plus / Plus

Query: 5117 a a a a t t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a a t a t a c a t t a g a
5176

|||||
Sbjct: 4402402 a a a a t t a a t t g t c a a a a a t t t a t t a t t t a a a t t t a c a t g c a c a t t a a a t a t a c a t t a g a
4402461

Query: 5177 a a t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236

|||||
Sbjct: 4402462 a a t t t t a g t g t t a t a t a t g a c a a c a t t a t t t a t t t t a t a a g a t a a c t a g g c t a a t a g c t c
4402521

Query: 5237 a g t t g g t t a g a g c a t t a t g t t a a t a a t g t g a a a g t c a a a a g t t c a a t t c t t a c t t g g a t c
5296

| |||||
Sbjct: 4402522 a a t t g g t t a g a g c a t c a t g c t a a t a a t g t g a a a g t t a c a g g t t t g a c t c g t g c t t a g a c c
4402581

Query: 5297 a t t a a t t t t a a a t t a a t t t g t a a a a t a t a t t t t 5329

| |||||
Sbjct: 4402582 g t c a a t t t t a a a t t a a t t c g t a a a a c a t a t t t t 4402614

Score = 129 bits (65), Expect = 9e-27
Identities = 191/233 (81%)
Strand = Plus / Plus

Query: 5117 a a a a t t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a a t a t a c a t t a g a
5176

|||||

Sbjct: 41514584 |||||
41514643

Query: 5177 aat ttt agt gtt ata tttagtgaaattaattat tttataacataattgatgtattagttc
5236

Sbjct: 26097220 ||| | | | | | | | | | | | | | | | | | | | | | | | | |
26097161 aa ttt agt gtt ata taataacaacattaattat tttgtaacataattggcctattagctc

Query: 5237 agttggttagagcattatgttaataatg 5264
||||||| ||| ||| || |||||
Sbjct: 26097160 agttggtttgagtattgtgctaataatg 26097133

Score = 127 bits (64), Expect = 3e-26
Identities = 64/64 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 46679977 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
46680036

Query: 1703 tcaa 1706
|||
Sbjct: 46680037 tcaa 46680040

Score = 125 bits (63), Expect = 1e-25
Identities = 96/107 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaaatttattatctaaatttgcacataacataacattaga
5176
||||||||||| | ||||||||||||| ||||||| ||| || ||||||||||||| |
Sbjct: 36795087 aaaattaattgtcataaaaatttattatgtaaatttacatgtgcattaaatatacattata
36795028

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataatt 5223
||||||||||||||| || ||| |||||||||||||||||||||
Sbjct: 36795027 aattttagtggttatataatgacattaattattttataacataatt 36794981

Score = 125 bits (63), Expect = 1e-25
Identities = 128/149 (85%), Gaps = 3/149 (2%)
Strand = Plus / Minus

Query: 6872 acttttcagcgtatacacaagatgtatgttagttcctataactcatggtgagcatgcttata
6931
||||||| | |||| ||||||||||| ||||| ||||||||||||||||||||| |
Sbjct: 40165052 acttttcaacatatagacaagatgtatatagttttataactcatggtgagcatgcttaca
40164993

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

```
Query: 5237      agttggttagag 5248
             ||||| |||||
Sbjct: 37069861 agttgattagag 37069872
```

Score = 117 bits (59), Expect = 3e-23
 Identities = 110/127 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||| || ||||| ||||| | ||||| || || ||||| |||||
 Sbjct: 20991612 aaaattaactgtcacaaaatttattatgtgtatttacatgtgcattaaatatacattaga
 20991553

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || || ||||| ||||| ||||| ||||| | ||||| ||
 Sbjct: 20991552 aatttttagtggttatatatatcgatattaattattttataatataattgggtttattagctc
 20991493

Query: 5237 agttggt 5243
 |||||
 Sbjct: 20991492 agttggt 20991486

Score = 117 bits (59), Expect = 3e-23
 Identities = 185/227 (81%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||| | ||||| ||||| ||||| ||||| || || ||||| |||||
 Sbjct: 23314115 aaaattaattatcacaaaatttattattttaaatttttatgcgcattaaatatacattaga
 23314174

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || || || ||||| ||||| ||||| || || ||
 Sbjct: 23314175 aatttttagttttatgtatagcaacattatgtattttataatgtaattgggtcatcaactc
 23314234

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 ||||| || || ||||| ||||| || || ||||| ||||| |
 Sbjct: 23314235 agttggtagagtgtgtgctaataacctgaaagtcacagatttgattcttatttggacc
 23314294

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaatta 5343
 ||||| ||||| | ||||| ||||| |||||
 Sbjct: 23314295 attaatttttaaattcatttgttacaaatatatttttcaaaaaaaaaatta 23314341

Score = 117 bits (59), Expect = 3e-23
 Identities = 115/132 (87%), Gaps = 5/132 (3%)
 Strand = Plus / Minus

Query: 6305 tttttttgttattaattgtctatatttgtgttctgttttaaattgaaaacaatattatttt
 6364
 ||||| ||||||||||| ||||||| |||| | ||||||||||||||| ||||||| |||
 Sbjct: 25180631 tttttgtgttattaattacctatatttatgttttgttttaaattgaaaataatattacttt
 25180572

Query: 6365 tcatatgttggttaattcttaatttcttatgcatattttatgttttatcattttttaagag
 6424
 ||||||||| || ||||||| || | ||||||| |||||||||||||||||||||
 Sbjct: 25180571 gcatatgttg----ttgttaattt-ttttccatatttttgttttatcattttttaagag
 25180517

Query: 6425 ttgaaatccttt 6436
 |||||||||||
 Sbjct: 25180516 ttgaaatccttt 25180505

Score = 115 bits (58), Expect = 1e-22
 Identities = 112/130 (86%)
 Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaaatttattatctaaatttgcacatgcacaataaatatacattagaa
 5177
 ||||||||||| ||||||||||||||| ||||||| ||| || ||||||| ||||||| |
 Sbjct: 8039976 aaattaattgtcacaaaaatttattatccaaatttacatatgcattaaatgatgcattagta
 8040035

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
 5237
 ||||||| ||||||||| ||| | ||||||||||||||||||||||| ||||||| |
 Sbjct: 8040036 attttattggttatatacagtaataattaattattttataacataattgacctattagttta
 8040095

Query: 5238 gttgggttaga 5247
 ||||| |||||
 Sbjct: 8040096 gttgattaga 8040105

Score = 115 bits (58), Expect = 1e-22
 Identities = 91/102 (89%)

Strand = Plus / Plus

Query: 5147 aatttgcacatgcacataaataacattagaaatcttagtggtatatttagtgaaattaat
5206

||||| ||||| ||| ||||||||||||||||||| ||||||| ||||||| |||||||
Sbjct: 9740440 aatttgcacatgcacataaataacattagaaatcttagtggtatatttagtgaaattaat
9740499

Query: 5207 tatctttataacataattgatgtatttagttcagttgggttagag 5248

||||||||| ||||||| ||||||| |||||||||||||
Sbjct: 9740500 tatctttataacataattgatgtatttagttcagttgggttagag 9740541

Score = 111 bits (56), Expect = 2e-21
Identities = 113/132 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacatgcacataaataacattaga
5176

||||||||| | ||||| ||||||| ||||||| |||| | ||||||||||||| |
Sbjct: 9260035 aaaattaataatcacaaatttattatgttaaatttgcacatgcacataaataacattaga
9260094

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatttagttc
5236

||||||| ||||||| || | ||| ||||||||||||||||||| |||||||
Sbjct: 9260095 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatttagttc
9260154

Query: 5237 agttgggttagag 5248

|||||||||||
Sbjct: 9260155 agttgggttagag 9260166

Score = 111 bits (56), Expect = 2e-21
Identities = 98/112 (87%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatcttagtggttatatttagtgaaattaattattttataacataa
5221

||||||||||||||||| ||||||| || | ||||| ||||||||||| |||||
Sbjct: 46430914 taaatatacattagaaatcttagtggttatatttagtgaaattaattattttataacataa
46430855

Query: 5222 ttgatgtatttagttcagttgggttagagcattatgttaataatgtgaaagtca 5273

||||| ||||||| ||||||||||||||||| || | |||||||||||||||||

Sbjct: 46430854 ttgatctattagctcagttgggttagagcggttgactaataatgtgaaagtca 46430803

Score = 109 bits (55), Expect = 8e-21
Identities = 70/75 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176

|||||
Sbjct: 7114883 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatacattaga
7114942

Query: 5177 aatttttagtggtata 5191

|||||
Sbjct: 7114943 aatttttagtggtata 7114957

Score = 109 bits (55), Expect = 8e-21
Identities = 73/78 (93%), Gaps = 2/78 (2%)
Strand = Plus / Plus

Query: 1195 aatcacacctttctcggcctttt--ggctaagatcaagtgtagtatctgttcttatcagt
1252

|||||
Sbjct: 17616161 aatcacacctttctcggcctttttggctaaaattaagtgtagtatttgttcttatcagt
17616220

Query: 1253 ttaatatctgatatgtgg 1270

|||||
Sbjct: 17616221 ttaatatctgatatgtgg 17616238

Score = 107 bits (54), Expect = 3e-20
Identities = 122/142 (85%), Gaps = 2/142 (1%)
Strand = Plus / Minus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTTatc
4816

|||||
Sbjct: 2698255 taactgttaatTTTTTTatttagtatcgtaagtaataattaatgagcaacaactcttcact
2698196

Query: 4817 aatatcatagctttgttttagaaaaaagagatttaataattaatagctaaagaaatccaa
4876

||||| ||| ||||||||| ||||||||| ||||||||| ||||||||| ||| |||||
Sbjct: 2698195 aatattataactttgttta-aaaaaaagaaatttaataattaatagctaaaaaagtcmaa
2698137

Query: 4877 aagtttttcttttatttttatt 4898
|| |||||||||
Sbjct: 2698136 aaatttttcttttatttttatt 2698115

Score = 107 bits (54), Expect = 3e-20
Identities = 123/146 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||| ||||||||| ||||||| ||| || ||||||||| |||
Sbjct: 6461137 aaaattaattgtcacaaaatttattaggttaaatttacatgtgcattaaatatacattaaa
6461078

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| ||||| ||||| ||| | ||||||||| ||||| | |||||||||
Sbjct: 6461077 aaaatttagtatttatatatagcaacattaattattttataatataaattaacatattagttc
6461018

Query: 5237 agttgggttagagcattatgttaataa 5262
||||| ||||| ||| |||||||||
Sbjct: 6461017 agttgattagaacatcgtgttaataa 6460992

Score = 107 bits (54), Expect = 3e-20
Identities = 123/146 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||||| ||||||||| ||||||| ||| ||||||||| ||| || ||||||||| |||
Sbjct: 30911499 aaaattaattgttataaaaatttgttattttaaatttacatgtgcattaaatatacattaaa
30911440

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||| ||||||||| || || ||||| ||||||||| ||||| | |||||||||
Sbjct: 30911439 aatttttagtggttatatacaaacattattttattttataatataaattaacctattagttt
30911380

Query: 5237 agttggttagagcattatgttaataa 5262
 |||||
 Sbjct: 30911379 agttggttagagcgtcatgctaataa 30911354

Score = 107 bits (54), Expect = 3e-20
 Identities = 205/253 (81%), Gaps = 3/253 (1%)
 Strand = Plus / Minus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
 7101
 |||||
 Sbjct: 40164881 gttaattatctcttgactaagaatcgcggtgcacatcgatcgaactcaagaacaatgtg
 40164822

Query: 7102 agagtttgcccttttctgtatgtctttcatagccttggttaataacttttgataaaacttc
 7161
 ||||
 Sbjct: 40164821 agagcctttctttctttgtgtgtcattcatagtcttggttagtaattgtgtataaatttg
 40164762

Query: 7162 accaaatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacct
 7221
 |
 Sbjct: 40164761 gctaaatgtaatcggtgtgtgacttatcttcctcttgattgaataatgtattacacc
 40164702

Query: 7222 agtatagggttgattttacca--acacacattgccagattttgtgttttcttgagtaccaa
 7279
 |||||
 Sbjct: 40164701 tatatagggttgattttactagcaaacatattgacaaatttgtgtttt-tttagtaccaa
 40164643

Query: 7280 attaattaactca 7292
 |||||
 Sbjct: 40164642 attaattgactca 40164630

Score = 107 bits (54), Expect = 3e-20
 Identities = 87/98 (88%)
 Strand = Plus / Plus

Query: 5136 tttattatctaaatttgcacatgcacaataaataacattagaaattttagtgttatattta
 5195
 |||||
 Sbjct: 43658227 tttattatataaatttacatgtatatataaataatataaattttagtgttatatata
 43658286

Query: 5196 gtgaaattaattatTTTTATAacataattgatgtattag 5233
 ||| |||||||||||||||||||||||||||||
Sbjct: 43658287 atgacattaattatTTTTATAacataattgatttattag 43658324

Score = 105 bits (53), Expect = 1e-19
Identities = 95/109 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||| | ||||||||||||||||||||| ||| || |||||||||||||||||
Sbjct: 3909119 aaaattaattatcacaaaatttattatctaaatttataatgtgcattaaatatacattaga
3909178

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTATAacataattga 5225
 ||||||| ||||| || | ||||||||||||||||| | |||||
Sbjct: 3909179 aatttttagtggttatataataacgctattaattatTTTATAatacaattga 3909227

Score = 105 bits (53), Expect = 1e-19
Identities = 95/109 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||| ||||| ||||||||||||||||| ||||| ||| ||||||||||||||||| |
Sbjct: 4394046 aaaattaattgtcacaaaatttattatttaaatttataatgtgcattaaatatacattata
4394105

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTATAacataattga 5225
 ||||||| ||||||| || | | ||||| ||||||||||||||||| |||||
Sbjct: 4394106 aattttactgttatataataaacattatttattTTTATAacataattga 4394154

Score = 105 bits (53), Expect = 1e-19
Identities = 155/189 (82%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175
 ||||||| ||||| ||||||||||||||||| ||||| ||| ||||||||| |||||
Sbjct: 8935150 aaaaaattaattgtcaaaaaatttattatttaaatttacatgtgcattaaatgatgattag
8935091

Query: 5176 aaatttttagtggttatatttagtgaaattaattatattttataacataattgatgtattagtt
 5235

Sbjct: 8935090 aaatttttagtggttatgtatatatcaacattattttatattttataacgtatttggtcattagct
 8935031

Query: 5236 cagttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
 5295

Sbjct: 8935030 cagttgattagagcattgtgctaataatcttaaagtcgcaggttcgggtcttacttgggt
 8934971

Query: 5296 cattaattt 5304
 Sbjct: 8934970 cattaattt 8934962

Score = 105 bits (53), Expect = 1e-19
 Identities = 131/157 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176

Sbjct: 35190607 aaaattaattgtaacaaaatttattatttaaatttacatacacattaaatatattaga
 35190666

Query: 5177 aatttttagtggttatatttagtgaaattaattatattttataacataattgatgtattagttc
 5236

Sbjct: 35190667 aatttttaattgtgtgtataacaacattattttatttgtaattgtaattgggtcattagctc
 35190726

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273
 Sbjct: 35190727 agttggttaaagcattatgctaataacgtgaaagtca 35190763

Score = 103 bits (52), Expect = 5e-19
 Identities = 67/72 (93%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176

|||||

Sbjct: 4296696 aaaattaattgtcacaaaatttattattttaaatttacatgcgcattaaatatacattaga
4296755

Query: 5177 aatttttagtggt 5188
|||||||
Sbjct: 4296756 aatttttagtggt 4296767

Score = 103 bits (52), Expect = 5e-19
Identities = 91/104 (87%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177
||||||| | ||||||| ||||| || | |||||||
Sbjct: 40272775 aaattaattttcacaaaatttattatgtaaatttatatgtgcattaaatatacattagaa
40272716

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataa 5221
||||||| ||||| || | ||||||| |||||
Sbjct: 40272715 attttagtatttatatagcgacattaattattttacaacataa 40272672

Score = 103 bits (52), Expect = 5e-19
Identities = 109/128 (85%)
Strand = Plus / Minus

Query: 5120 attaattgttacaaaatttattatctaaatttgcacataaatatacattagaaat
5179
||||||| ||||||| ||||| || | |||||||
Sbjct: 45724126 attaattgtcacaaaatttattatgtaaatttatatgtgcattaaatatacattagaaat
45724067

Query: 5180 ttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcagt
5239
||| ||| ||| || | || || ||||||| ||||| ||||| | ||
Sbjct: 45724066 tttattgtaatatatagggatatgaattattttataatataattgacatattagcttggt
45724007

Query: 5240 tgggttaga 5247
|||||||
Sbjct: 45724006 tgggttaga 45723999

Score = 101 bits (51), Expect = 2e-18

Identities = 67/71 (94%), Gaps = 1/71 (1%)
Strand = Plus / Minus

Query: 6404 tgttttatcattttttaa-gagttgaaatcctttgtatttttattttatttgattattat
6462
 ||||||||||||| ||| ||||||||||||||||||||||||||||||| |||||
Sbjct: 1463628 tgttttatcattttattaaagagttgaaatcctttgtatttttattttattttattattaa
1463569

Query: 6463 aatacataatt 6473
 |||||||||||
Sbjct: 1463568 aatacataatt 1463558

Score = 101 bits (51), Expect = 2e-18
Identities = 160/195 (82%), Gaps = 1/195 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||| ||||||||||||| ||||| ||| | ||||||||||| |||
Sbjct: 46500029 aaaattaattgtcacaaaatttattattgaaatttatatgcgcggttaaatacat-aga
46499971

Query: 5177 aattttagtgttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||| | || | | | | ||||||||||| ||||||| ||||| |||
Sbjct: 46499970 aattttagtgttatgtataataatatcatttattttataatgtaattgacttattagctc
46499911

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 ||||||||||||| || | ||||||| ||||||| | | ||||| ||||||| ||||| |
Sbjct: 46499910 ggttggttagagcggttcggctaataacctgaaagttatagggttcgattcttgttggacc
46499851

Query: 5297 attaatttttaaatta 5311
 |||||||||||||
Sbjct: 46499850 attaatttttaaatta 46499836

Score = 97.6 bits (49), Expect = 3e-17
Identities = 88/101 (87%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa 5177
|||||
Sbjct: 6461161 aaattaattgtcacaaaatttattgtataaatttactcgttcattaaatatacattaaaa 6461220

Query: 5178 attttagtggttatatttagtgaaattaattattttataaca 5218
|||||
Sbjct: 6461221 attttaattgttatatatagtaaaattaattattttataaca 6461261

Score = 97.6 bits (49), Expect = 3e-17
Identities = 109/129 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga 5176
|||||
Sbjct: 18512582 aaaattaattatcataaaaatttattatttaattttacatgtgcattaaatatacattaga 18512641

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc 5236
|||||
Sbjct: 18512642 aattttactgttatatataacaacattatttattttataatataattgacctattagctc 18512701

Query: 5237 agttgggtta 5245
|||||
Sbjct: 18512702 agttgggtta 18512710

Score = 97.6 bits (49), Expect = 3e-17
Identities = 67/73 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga 5176
|||||
Sbjct: 35025020 aaaattaattgtcataaaaatttattatctaaatttatatgcacattaaatatacattagt 35024961

Query: 5177 aatttttagtggtta 5189
|||||
Sbjct: 35024960 aatttttagtggtta 35024948

Score = 97.6 bits (49), Expect = 3e-17
Identities = 184/227 (81%), Gaps = 4/227 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatc---taaatttgcacataacataacatt
5173
 ||||||||||| ||||||||||| |||||| | | | | ||||||| |||
Sbjct: 35190241 aaaattaattgtaacaaaatttattattatttaaatttacatacatattaaatatatt
35190182

Query: 5174 agaaatttttagtggttatatttagtgaaattaatttttataacataattgatgtattag
5233
 ||||||||||| || | || | ||| ||||||||||| |||||| | ||||
Sbjct: 35190181 agaaatttttagtgt-atgtataacaacattatttattttataatgtaattgactcattag
35190123

Query: 5234 ttcagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgg
5293
 |||| | ||||||||||| || ||||| |||||| | | || | | |||| | ||||
Sbjct: 35190122 ttcaattggttagagcattgtgctaataacttgaaagttagaggtttgagtcttgcttgg
35190063

Query: 5294 atcattaatttttaaattaatttgtaaaaatatatttttgaaaaaaaaa 5340
 | |||| | || | |||||| | || | |||||| | ||||||
Sbjct: 35190062 accattatttttgaattaattcgtactaatatttttcaaaaaaaaaa 35190016

Score = 97.6 bits (49), Expect = 3e-17
Identities = 103/121 (85%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaatttttataacataa
5221
 ||||||| ||||||| |||| | |||| | | || | ||||||| |||||||
Sbjct: 35833071 taaatatatattagaaatatttagcattatatataatgatgttaatttttttaacataa
35833130

Query: 5222 ttgatgtattagttcagttggttagagcattatgttaataatgtgaaagtcaaaagttca
5281
 || | ||||||| ||||||| | || | ||||||| ||||||| | ||||
Sbjct: 35833131 ttagtctattagtttagttggttaaaacatcatgttaataatgtgaaagtcataggttca
35833190

Query: 5282 a 5282
 |
Sbjct: 35833191 a 35833191

Sbjct: 25818425 aatttttatattatatatgacaacattaattatTTTTTTTaaacataattattctattagtt
 25818484

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagtt 5279
 |||| |||||||||| || |||||| |||||| ||||
 Sbjct: 25818485 tagttagtttagagcattgtgctaataatgCGAAAGTCataagtt 25818528

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 263/334 (78%), Gaps = 3/334 (0%)
 Strand = Plus / Minus

Query: 6684 cacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatacga
 6743
 ||||||||| | |||||| ||| |||||||||||||||| ||||| |||| |
 Sbjct: 27534813 cacatggaacacaactttggttgaccaattcttggatatccatttcggtgtggatacaa
 27534754

Query: 6744 gaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatcttggc
 6803
 ||||||||| ||| | |||| | |||||| ||| |||| ||||| || ||||
 Sbjct: 27534753 gaggagacaggacgaaccttagtacttcttttcttttctgggtcggggcatatcattggc
 27534694

Query: 6804 ttgtgacatggtgaccaacatgcttcattgcacaatttccaagtaatcatttgtacatg
 6863
 ||||||||| || | |||||| |||| | || |||| | |||| |
 Sbjct: 27534693 gcatgacatggtggcaaataggcttcattgtgcaattctctaaacaatcttgtgtatacg
 27534634

Query: 6864 ttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagca
 6923
 || ||| |||| | | ||||||||| |||||||| | |||||| |||||
 Sbjct: 27534633 ttgaagacactttccaacatatacacaagacttatgtagtttgtgtactcataatgagca
 27534574

Query: 6924 tgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacag
 6980
 |||||| | | ||||||||| |||||| |||||| | |||||| |||||| ||| |
 Sbjct: 27534573 tgcttacaagcagcaacaacataagaacaagacatgtgtaatttttggaaatttgccactg
 27534514

Query: 6981 tcacactacctttcatctagcttgaccatgaaat 7014
 | | || ||||||||| || |||| | |||||
 Sbjct: 27534513 tgataccacctttcatccagtttgatcgatgaaat 27534480

Score = 95.7 bits (48), Expect = 1e-16
Identities = 99/116 (85%)
Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcacataaataacattagaaatttttagtggtata 5191
 ||||| ||||| ||||| ||| || ||||| ||||| ||||| ||||| |||||
Sbjct: 39850782 aaaaattattatgtaaatttatatgtgcattaaatatattataaatttttagtggtata 39850841

Query: 5192 ttttagtgaaattaattattttataacataattgatgtattagttcagttgggttaga 5247
 | || || ||||| ||||| ||||| || ||||| ||||| ||||| |||||
Sbjct: 39850842 tataacgacattaattattttataatataattaatctattagttcaattgggttaga 39850897

Score = 93.7 bits (47), Expect = 5e-16
Identities = 77/87 (88%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaattttaaaatacaacaatatggcataa 6639
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27534936 aaaatattttaaatttgaattaatacaacaaaaatttataactacaacaatatgatatac 27534877

Query: 6640 aattaatggttggtggcctgagcctaca 6666
 | | ||||| ||||| ||||| |||||
Sbjct: 27534876 attcaatggttggtggcctgagcctaca 27534850

Score = 93.7 bits (47), Expect = 5e-16
Identities = 92/107 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga 5176
 ||||| || ||||| ||||| ||||| || ||||| || ||||| ||||| |||||
Sbjct: 31774447 aaaattaatcgtcacaaaatttattatgttaaacttacatgtgcattaaatatatataaa 31774388

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 | ||||| ||||| || || ||||| ||||| ||||| |||||
Sbjct: 31774387 aatttttagtggttatataatgacattaattattttataatataatt 31774341

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 135/163 (82%), Gaps = 1/163 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| | | | | | | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 38011296 aaaattaattttcacaaaatttattgtgttaaatttacatgtgcattaaatatatat-aga
 38011354

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| | | | | | | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 38011355 aatttttagtggttatataacaatgacattagttattttataacataattgggtctatttgctc
 38011414

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagtt 5279
 ||||| | | | | | | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 38011415 cattggtagagtgtcatgttaataacatgaaagccacaagtt 38011457

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 103/122 (84%)
 Strand = Plus / Plus

Query: 5120 attaattgttacaaaatttattatctaaatttgcacataaatatacattagaaat
 5179
 ||||| | | | | | | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 21125066 attaattatcacaaaatttattatgttaaatttacatgtgcattaaatgtacattagaagt
 21125125

Query: 5180 tttagtgttatatttagtgaaattaattattttataacataattgatgtattagttcagt
 5239
 ||||| | | | | | | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 21125126 tttagtcttatacatatcgatattaattattttataacataattagtttattagctcagt
 21125185

Query: 5240 tg 5241
 ||
 Sbjct: 21125186 tg 21125187

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 73/82 (89%)
 Strand = Plus / Minus

Query: 5013 aataattttaataaattatatttatgaataaataaaagggtttattcttaaatttgcttga
5072
|||||
Sbjct: 30536117 aataattttaataaactatatttatgagtaaataaaatgtctcattcttaaatttgcttta
30536058

Query: 5073 gccctctcaagtccttgagccg 5094
| |||||
Sbjct: 30536057 gatctctcaagtccttgagccg 30536036

Score = 91.7 bits (46), Expect = 2e-15
Identities = 170/210 (80%), Gaps = 1/210 (0%)
Strand = Plus / Plus

Query: 5130 acaaaattttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtta
5189
|||||
Sbjct: 40568186 acaaaattttattgtgttaaattttacatgtacattaaatataaaattataaatttttagtggtta
40568245

Query: 5190 tatttagtgaaattaattatattttataacataattgatgtattagttcagttgggttagagc
5249
||| || || | || ||||| ||| ||||| | ||||| || ||||| ||
Sbjct: 40568246 tatataacgacactatttattt-atatcataatgtgtctattagctctattgggttgaat
40568304

Query: 5250 attatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaa
5309
|| | ||||| || | || | |||| | ||||| || | ||||| |||||
Sbjct: 40568305 gttctattaataatgcggaagacacaagtttgattcttactttaaccattaatttttaa
40568364

Query: 5310 taatttgtaaaatatatttttgaaaaaaaaa 5339
||| | |||| | ||||| ||||| |||||
Sbjct: 40568365 taaatcgtaaattatatatttttgaaaaaaaaa 40568394

Score = 91.7 bits (46), Expect = 2e-15
Identities = 114/137 (83%), Gaps = 6/137 (4%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaa-----taaataac
5170
||||| ||||| ||||| ||||| ||||| ||||| |||||


```
Query: 6922      catgcttataaacaacaaca 6941
             ||||| || |||||
Sbjct: 6355582  tatgcttacaagcaacaaca 6355563
```

Score = 87.7 bits (44), Expect = 3e-14
Identities = 118/140 (84%), Gaps = 2/140 (1%)
Strand = Plus / Minus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTtATC
4816

|||||
Sbjct: 9217436 taactgttaatctttttattggtactgtaggtaataattaatcagtaacaactcttcacc
9217377

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876

|||||
Sbjct: 9217376 aatatcataatTTTgTTTatgaaaaa-gatatttaatagTTaataagTaaagaaatccaa
9217318

Query: 4877 aagTTTTctTTtattTTtTa 4896

|| ||| |||| |||||
Sbjct: 9217317 aaaatttcctTTtaattTTtTa 9217298

Score = 85.7 bits (43), Expect = 1e-13
Identities = 157/195 (80%)
Strand = Plus / Minus

Query: 5120 attaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaaat
5179

|||||
Sbjct: 37069602 attaattgtcacaaaatttattatttaaatttacacatgcattaaatatattagaaat
37069543

Query: 5180 tttagtgttatatttagtgaaattaattattttataacataattgatgtattagttcagt
5239

|||||
Sbjct: 37069542 tttagtgttatgtataggtacattatttattttataatataattggctcattagctcaga
37069483

Query: 5240 tgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcatt
5299

|| ||||| || | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 37069482 tgattagagtgtgtactaataacctgaaagtcacaagtttgatttttgcttgagccatt
37069423

Query: 5300 aatttttaaattaatt 5314

|||||
Sbjct: 37069422 aatttttaaattaatt 37069408

Score = 83.8 bits (42), Expect = 5e-13
Identities = 51/54 (94%)
Strand = Plus / Plus

Query: 4819 tatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaat 4872
|||||
Sbjct: 40596663 tatcatagctttatttagaaaaaaagagatttaataattaatagctaaataaat
40596716

Score = 83.8 bits (42), Expect = 5e-13
Identities = 90/106 (84%)
Strand = Plus / Plus

Query: 5120 attaattggttacaaaatttattatctaaatttgcacataaaatatacattagaaat
5179
|||||
Sbjct: 44076589 attaattggttacaaaatttattatgttaaacttatatgtgtattaaatatacattagaaat
44076648

Query: 5180 tttagtgttatatttagtgaaattaattattttataacataattga 5225
|||||
Sbjct: 44076649 tttagtagtatatatattgacgttaattattttttaagataattga 44076694

Score = 83.8 bits (42), Expect = 5e-13
Identities = 107/126 (84%), Gaps = 2/126 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatcta-aatttgcacataaaatatacattag
5175
|||||
Sbjct: 45205268 aaaattaattattacaaaatttatta-ctataatttatatatgcattaactatatattag
45205326

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
|||||
Sbjct: 45205327 aaattttagtatttatatatagcgatattaattattttataacataattaacctattagct
45205386

Query: 5236 cagttg 5241
 |||||
 Sbjct: 45205387 cagttg 45205392

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 50/53 (94%)
 Strand = Plus / Plus

Query: 6421 agagttgaaatcctttgtatTTTTtatttatttgattattataatacataatt 6473
 |||||
 Sbjct: 2409182 agagttgaaattctttgtatTTTtcattttatttgattattaaaatacataatt 2409234

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 98/117 (83%)
 Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcattgcacaataaatatacattagaaattttagtgttata
 5191
 |||||
 Sbjct: 4393900 aaaatttattatttaaatttacatgcgcattagatatataaaaaatttatttttata
 4393841

Query: 5192 tttagtgaatttaattattttataacataattgatgtattagttcagttgggttagag 5248
 |||||
 Sbjct: 4393840 tataacaacattattttattttataacataattgatctattaactcagttgggttagag
 4393784

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 128/157 (81%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattag
 5175
 |||||
 Sbjct: 15916916 aaaaattaattgtcagaaaatgtattatttaaatttacatgtgcattaaatatgcattag
 15916857

Query: 5176 aaatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235
 |||||
 Sbjct: 15916856 aaatttttagtgttatgtatatcaatattattttattttataacgtaattaactcattagct
 15916797

```
Query: 5180      tttagtgttatatatttagtgaaattaattatttttataacataattgatgtattagtt 5235
                ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 44473938 tttagtatgatataataacaatattaattatttttataacataattgatttattagtt
44473993
```

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 57/63 (90%)
 Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacatgcacataaataacattagaaatttttagtggtta
 5189
 |||||
 Sbjct: 2383835 acaaaatttactatataaaatttgcacatgtacattaaataaattagaaatttttaagtgtta
 2383776

Query: 5190 tat 5192
 |||
 Sbjct: 2383775 tat 2383773

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 134/163 (82%), Gaps = 2/163 (1%)
 Strand = Plus / Plus

Query: 7459 ctacaaatcattaaataatacaattacaatcaaataatttggggagggggtcttcaaaac
 7518
 |||||
 Sbjct: 18489154 ctacaaatcattaaataataaaatagaaatcaaataaattgggg-ggttttcttcaaaac
 18489212

Query: 7519 ttgattcaagggttcattgtatcatcgagggtattcacccaaaccctc-caaattcaaagag
 7577
 | |||||
 Sbjct: 18489213 tcgattcaagggttcaatgtttgaccgagggtattcatccaaacctcaaaaaatgaaagag
 18489272

Query: 7578 cttgcagaaactgggtgggtggttgatgcatatgtttatgtggggtg 7620
 | |||||
 Sbjct: 18489273 ttgacagaaattgggtgggtggatgacacatgttcgtgtggggtg 18489315

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 69/79 (87%)
 Strand = Plus / Minus

Query: 5013 aataattttaataaattatatttatgaataaataaaagggttttattcttaaaatttgcttga
 5072
 |||||
 Sbjct: 32180939 aataattttaataaactatatttatgactaaataaaagatctcattcttaaaatttgcttta
 32180880

Query: 5073 gccctctcaagtccttgag 5091
 | |||||
 Sbjct: 32180879 agcgtctcaagtccttgag 32180861

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 93/111 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 44962131 aaaattaattgtcacaaaatttatcatttaaatttacatgtgcattaaatatatattaaa
 44962072

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatg 5227
 || |||||
 Sbjct: 44962071 aaatttagtggttatatataacaacattatttattttataaatatgattgatg 44962021

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 126/154 (81%), Gaps = 1/154 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 29728011 aaaattaattgttataaaaatttattgttttaaatttatatgcac-ttaaatatatattaaa
 29728069

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 29728070 aattttaatatatatataacaacattatttattttataaatataattagttctattaactc
 29728129

Query: 5237 agttggtagagcattatgttaataatgtgaaag 5270
 |||||
 Sbjct: 29728130 agttggtagaacgttataactaataatctgaaag 29728163

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 53/58 (91%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtgTTtatatTTtagtgaaattaattatTTtataacat
 5219

|||||
 Sbjct: 36846260 taaatatacattaaaaaTTtagtgTTtatatatagcgacattaattatTTtataacat
 36846203

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 112/134 (83%), Gaps = 2/134 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgTTtacaaaatTTtattatctaaatTTgcatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 44076486 aaaattaattattataaaaacttattatgtaaacttatatgtgtattaaatatatattaaa
 44076427

Query: 5177 aatTTtagtgTTtatatTTtag-tgaaa-ttaattatTTtataacataattgatgtattagt
 5234

|||||
 Sbjct: 44076426 aatTTtagtgTTtatatatatatcaaagttaattatTTTTtaataataattgatctattagt
 44076367

Query: 5235 tcagttggttagag 5248

|
 Sbjct: 44076366 ttagttggttagag 44076353

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 85/100 (85%), Gaps = 2/100 (2%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgTTtacaaaatTTtattatctaaatTTgcatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 2576257 aaaattaattattataaaaatTTtattatataaaatTTtatat--atattaaatatatattaaa
 2576314

Query: 5177 aatTTtagtgTTtatatTTtagtgaaattaattatTTtataa 5216

|||||
 Sbjct: 2576315 aatTTtagtattatatataatgatattaattatTTtataa 2576354

Score = 73.8 bits (37), Expect = 5e-10

Identities = 76/89 (85%)
Strand = Plus / Minus

Query: 4928 ttttttctactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgatt
4987
||||| ||||| ||||| ||||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 35732404 ttttctcacggtctctcataactaatttgtcttctcacctgcttctttaatttatttgatt
35732345

Query: 4988 attattttacttttgatacattagccaata 5016
||| ||||| ||||| ||||| |||||
Sbjct: 35732344 attgttttactttgacacattagtcaata 35732316

Score = 73.8 bits (37), Expect = 5e-10
Identities = 73/85 (85%)
Strand = Plus / Minus

Query: 5014 ataattttaataaaattattttatgaataaaataaaagggttttattcttaaatttgcttgag
5073
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 37059489 ataattttaataaaactattttatgagtaaataaaatgcatcattcttaaatttgttttat
37059430

Query: 5074 ccctctcaagtccttgagccgcccc 5098
||||| ||||| ||||| |||||
Sbjct: 37059429 acctctcaaataccttgagccacccc 37059405

Score = 71.9 bits (36), Expect = 2e-09
Identities = 97/116 (83%), Gaps = 1/116 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1579483 aaaattactcggttacaaaatttattatataaaacttatatgtgtattaaatatactttaga
1579424

Query: 5177 aattttagtggttatattttagtgaaattaattattttataacataattgatgtatta 5232
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1579423 aatttaagtggttatatata-taatattaattattttataatataattaatctatta
1579369

```
Query: 6961      ttttttgaaatttgtcacagtcacac 6986
              ||||| || ||||| |||||
Sbjct: 8225222 ttttctggaatttgccacagtcacac 8225247
```

```
Query: 5218      ataattgatgtattagttcagttggttagagcattatgttaataatgtgaaagtca 5273
                ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9259968  ataattggtctattaattcagttggttagagcatcatgctaataatgtgaaagtca
9259913
```

```
Query: 5166      tatacattagaaat ttttagtg ttatat ttttagtg aaatta attat ttttata acataa ttga
5225            |||||
Sbjct: 17774364 tatacattgaaaat ttttagtg ttatat atgatg acatta attat ttttata acataa ttta
17774423
```

Query: 5117 aaaattaattgttacaaaatTTtattatctaaattttgcatgcacaataaatatacattaga
5176

||||| | ||||| ||||| || || || ||||| |

Sbjct: 2398177 aaaattaattatcacaaaatTTtattatgtaaacttatatatgcattaaatatacataaa
2398118

Score = 69.9 bits (35), Expect = 7e-09
Identities = 41/43 (95%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAA 5339
 ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 31619958 attaatttttaaattaatttcgtaaaacatatTTTTGAAAAAAAA 31619916

Score = 69.9 bits (35), Expect = 7e-09
Identities = 80/95 (84%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcattgcacaataaatatacattagaaatttttagtggtta
5189
 ||||||| ||||||| ||||| || ||||| || ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 34885541 acaaaaattattatataaaacttacatgtgcattaaatatacattagaaatttttagtggtta
34885482

Query: 5190 tatttagtgaaattaattattttataacataattg 5224
 || | | ||||||| ||||||| |||||||
Sbjct: 34885481 cataaaacaatattaattattttataatataattg 34885447

Score = 69.9 bits (35), Expect = 7e-09
Identities = 98/119 (82%)
Strand = Plus / Minus

Query: 6882 gtatacacaagatgtatgtagttcctataactcatgggtgagcatgcttataaacaacaaca
6941
 ||||||| | ||||||| || || || | || | ||||||| || || || || ||
Sbjct: 41624755 gtatacacgaaatgtatgtaatttctgtattaatgataagcatgcttacaagcagcaaca
41624696

Query: 6942 tgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatctag
7000
 ||||||| ||||||| ||||| ||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 41624695 tgagaacaaggatgtgcaacttttggaattttccacagtcacaccacctttcatctag
41624637

Score = 67.9 bits (34), Expect = 3e-08
Identities = 88/106 (83%)
Strand = Plus / Plus

Query: 5120 attaattgttacaaaattttattatctaaatttgcattgcacaataaatatacattagaaat
5179

Sbjct: 2586496 ||||| ||| |||||||||||||||| ||| ||| | ||||||| | |||||||
2586555 attaattattagaaaatttattatgtaaacttatatgtgtattaaatatataatagaaat

Query: 5180 tttagtgttatatttagtgaaattaattatttataacataattga 5225

Sbjct: 2586556 |||
tttagtggttatataaacgacgttaattatntttttaacataattga 2586601

Score = 67.9 bits (34), Expect = 3e-08
Identities = 91/110 (82%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtgttatatatttagtgaaattaattttttataacataa
5221

Sbjct: 3902553 taaatatacattataaatttttaagtgttatgtataccaatattattttattttataacataa
3902612

Query: 5222 ttgatgtattagttcagttggttagagcattatgttaataatgtgaaagt 5271

Sbjct: 3902613 ||| ||||| ||||||| | || ||||| ||||||| |||||
ttaaattattaattcagttggtcatagtgttatgctaataatctgaaagt 3902662

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/53 (92%), Gaps = 2/53 (3%)
Strand = Plus / Minus

Query: 6421 agagttgaaatcctttgtatttttattttatttgattattataatacataatt 6473

Sbjct: 25180202 agagttgagatcctttgtattttcattttatttgattat--taatacataatt
25180152

Score = 67.9 bits (34), Expect = 3e-08
Identities = 34/34 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacat 1676

|||||
Sbjct: 40645879 aacgccttatcccactaaggtggggctcggctacat 40645846

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/54 (90%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattatatttatgaataaataaaaaggttttattcttaaatttg 5067
 ||||| ||||| ||||| || | |||||
Sbjct: 46226169 ataattttaataaactatatttatgagtaaataaaaatgtctcattcttaaatttg
46226116

Score = 65.9 bits (33), Expect = 1e-07
Identities = 51/57 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacatt 5173
 ||||| | ||||| ||||| || | |||||
Sbjct: 2063157 aaaattaattatcacaaaatttattatttaaatttacatgcgcattaaatatacatt
2063213

Score = 65.9 bits (33), Expect = 1e-07
Identities = 91/109 (83%), Gaps = 1/109 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacatt-ag
5175
 |||| | | ||||| ||||| || | || | |||||
Sbjct: 6285181 aaaactaattgtcaaaaaatttattatttaaatttacatacacattaaatatacattaaa
6285240

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattg 5224
 ||| | ||||| || | || | ||||| |||||
Sbjct: 6285241 aaaacttagtggttatataataacattattcattttataagataattg 6285289

Score = 65.9 bits (33), Expect = 1e-07
Identities = 63/73 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| ||||| |||| | || | || | |||||
Sbjct: 12233716 aaaattaattgtcacaaaatttattatgtaaacttacatgtgcattaaatatacattaaa
12233657

Query: 5177 aatttttagtggtta 5189
 |||||
 Sbjct: 12233656 ttttttagtggtta 12233644

Score = 65.9 bits (33), Expect = 1e-07
 Identities = 54/61 (88%)
 Strand = Plus / Plus

Query: 6580 aaaatatatttaatttgaaataatacaacaaaaatttttaaaatacaaacatattggcataa
 6639
 |||||
 Sbjct: 18473032 aaaatatatttaatttgaaataataccacaaaatttttaaaatacaaacatattggcataa
 18473091

Query: 6640 a 6640
 |
 Sbjct: 18473092 a 18473092

Score = 65.9 bits (33), Expect = 1e-07
 Identities = 76/89 (85%), Gaps = 1/89 (1%)
 Strand = Plus / Plus

Query: 7133 gccttggtttaataacttttgtataaaacttcaccaaattgtaatcactcttgcgacttctctc
 7192
 |||||
 Sbjct: 18473585 gccttggttagtacttttgtataaaacttggccagatgcaagcattgttggtgccttttctc
 18473644

Query: 7193 cccctttggttgaacaatgcattacacct 7221
 || ||||
 Sbjct: 18473645 cctcttt-gttgaacaatgcattacacct 18473672

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 50/55 (90%), Gaps = 2/55 (3%)
 Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaa 5349
 |||||
 Sbjct: 3909284 tcattaatttttaaattaatttcgtaaaacatatattt--aaaaaaaaattataaaaa
 3909336

Score = 63.9 bits (32), Expect = 4e-07
Identities = 47/52 (90%)
Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagcatt 5252
 ||||| ||||||||||||| ||||||||| ||||||| |||||||||||||||||
Sbjct: 23416401 attatTTtattTTTtataacgtaattgattcattagtttagttggttagagcatt 23416350

Score = 63.9 bits (32), Expect = 4e-07
Identities = 47/52 (90%)
Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagcatt 5252
 ||||| ||||||||||||| ||||||||| ||||||| |||||||||||||||||
Sbjct: 23514817 attatTTtattTTTtataacgtaattgattcattagtttagttggttagagcatt 23514766

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Plus

Query: 6431 tcctttgtatTTTtattTTtatttgattattataataacata 6470
 ||||| ||||||||||||| ||||||||||||||||| |||||||||
Sbjct: 37857325 tcctttgtatTTTtcattTTtatttgattattaaaataacata 37857364

Score = 63.9 bits (32), Expect = 4e-07
Identities = 56/64 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
 ||||| ||||||||||||| ||||||| ||||||||| ||||||| || || ||||||||| |||||||
Sbjct: 38011274 aaaattaattgtcacaaagtttattatataaaatttacatgtgcattaaatataaaattaga
38011215

Query: 5177 aatt 5180
 ||||
Sbjct: 38011214 aatt 38011211

Score = 63.9 bits (32), Expect = 4e-07
Identities = 50/56 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacat 5172
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41956637 aaaattaattatcataaaatttattatctaaatttatatgcacattaaatatacat
41956582

Score = 62.0 bits (31), Expect = 2e-06
Identities = 37/39 (94%)
Strand = Plus / Minus

Query: 5297 attaattttaaattaatttgtaaaatatatttttgaaaa 5335
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34885381 attaattttaaattaatttgtaaaatacatttttaaaaa 34885343

Score = 62.0 bits (31), Expect = 2e-06
Identities = 34/35 (97%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaa 5048
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40596800 ataattttaataaattattttatgagtaaataaaa 40596834

Score = 60.0 bits (30), Expect = 7e-06
Identities = 45/50 (90%)
Strand = Plus / Plus

Query: 5284 tcttacttggatcattaattttaaattaatttgtaaaatatatttttgaa 5333
 |||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2063253 tcttgcttggatcattaattttaaattaatttcataacacatatatttttgaa 2063302

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Plus

Query: 5291 tggatcattaattttaaattaatttgtaaaatat 5324
 |||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 25823906 tggaccattaatTTTTaaattaatttGTaaaatat 25823939

Score = 60.0 bits (30), Expect = 7e-06
Identities = 30/30 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggct 1672
|||||
Sbjct: 39487146 aacgccttatcccactaggtggggtcggct 39487175

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaattt 5151
|||||
Sbjct: 40220712 aaattaattgttacaaaatttattatctaaattt 40220745

Score = 60.0 bits (30), Expect = 7e-06
Identities = 84/102 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
|||||
Sbjct: 45518435 aaaattaattattataaaaatttattatataaaatttatgtatattaaatatatataaa
45518494

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataaca 5218
|||||
Sbjct: 45518495 catttcaatatttatataataatattaattattttataaca 45518536

Score = 58.0 bits (29), Expect = 3e-05
Identities = 62/73 (84%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtcacttttcttgtggaatcttcct
7352
|||||

Sbjct: 1462715 gtgtccccattgtcagccaccatcctatgcaagagtctacttttctcacggaatcttctt
1462656

Query: 7353 aagctaattaatt 7365
||| |||||
Sbjct: 1462655 tagccaattaatt 1462643

Score = 58.0 bits (29), Expect = 3e-05
Identities = 47/53 (88%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggttttattcttaaattt 5066
||||||| ||||| || ||||| | | |||||
Sbjct: 2697996 ataattttaataaactattttatgagtatataaaaagatatcattcttaaattt 2697944

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
||||||| |||||
Sbjct: 10104918 gccttatcccactaggttaaggctcggtacatggatca 10104882

Score = 58.0 bits (29), Expect = 3e-05
Identities = 39/41 (95%), Gaps = 1/41 (2%)
Strand = Plus / Minus

Query: 4762 tgttaatctttttatttgataccgtaa-taataattaataag 4801
||||||| ||||| |||||
Sbjct: 32181284 tgttaatctttttatttggtaccgtaagtaataattaataag 32181244

Score = 58.0 bits (29), Expect = 3e-05
Identities = 71/85 (83%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggttttattcttaaatttgcttgag
5073
||||||| ||||| | ||||| | |||||
Sbjct: 37046062 ataattttaataaactattttataagtaataaaaagacatcattcttaaatttattttag
37046003


```
Query: 6376      taattcttaatatttcttatgcataattttatgttttatcattttttaagagttagaatcctt
6435             |||||          ||   |||||||||||    |||||||||||    |||||||
Sbjct: 2408908  taat-----ttgtttttgcatatttttagtgttatcattttttaagagttaaaattcctt
2408961
```

Query: 6436 tgtatt 6441
 | |||
Sbjct: 2408962 tatatt 2408967

Score = 54.0 bits (27), Expect = 4e-04
Identities = 48/55 (87%)
Strand = Plus / Plus

Query: 7167 atgtaatcactcttgcgacttctctccccctttgggtgaacaatgcattacacct 7221
 ||||| ||| ||||| ||||| || || || ||||| ||||| |||||
Sbjct: 2409511 atgtaagcactggtgcgacttctctccttttagttgaataatgcattacacct
2409565

Score = 54.0 bits (27), Expect = 4e-04
Identities = 36/39 (92%)
Strand = Plus / Plus

Query: 7256 attttgtgttttcttgagtaccaaattaattaactcagt 7294
 ||||| ||||| || ||||| ||||| |||||
Sbjct: 2409602 attttgtgttttcttaaataccaaattaattgactcagt 2409640

Score = 54.0 bits (27), Expect = 4e-04
Identities = 63/75 (84%)
Strand = Plus / Minus

Query: 5145 taaatttgcacatgcacaataaatatacattagaaattttagtggttatatttagtgaaatta
5204
 ||||| ||||| || ||||| |||| | ||||| ||||| |||| | ||||
Sbjct: 2473502 taaatttacatgcatattaaatatatattaaattttttagtattatatatagtaacatta
2473443

Query: 5205 attatattataacat 5219
 ||||| |||||
Sbjct: 2473442 attatattattacat 2473428

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 |||||
Sbjct: 3902335 aaaattaattgtcacaaaatttattatttaaattt 3902301

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 |||||
Sbjct: 6355962 acaagttgaattgaactaaaatatttaaatt 6355932

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 |||||
Sbjct: 6356162 acaagttgaattgaactaaaatatttaaatt 6356132

Score = 54.0 bits (27), Expect = 4e-04
Identities = 102/125 (81%), Gaps = 4/125 (3%)
Strand = Plus / Minus

Query: 6872 acttttcagcgtatacacaagatgtatgtagttcctatactcatgg-tgagcatgcttat
6930
 |||||
Sbjct: 12599944 acttttcaacgtatacctaggatgtatgtagttctagtactcatgggtgagcatgattac
12599885

Query: 6931 aaacaacaa---catgagaacaaaacatgtgcattttttgaaatttgtcacagtcacact
6987
 || || || |
Sbjct: 12599884 aagcagcaagaacatgagaacaaggcatatgcaacttttggaatttgccacagtcacatt
12599825

Query: 6988 acctt 6992
 |||||
Sbjct: 12599824 acctt 12599820

Score = 52.0 bits (26), Expect = 0.002
Identities = 48/54 (88%), Gaps = 1/54 (1%)
Strand = Plus / Plus

Query: 5296 cattaatTTTtaaattaatttgtaaaatata-tTTTTgaaaaaaaaaattataaaa 5348
 |||| |||||| ||||| ||| |||| | ||||| ||||| |||||
Sbjct: 21125210 cattcattTTTtaaattaattcgtaaaacatatTTTTTTTaaaaaaaaaattaaaaaa
21125263

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 7085 aactcaagaacaatgtgagagtttgccTTT 7114
 |||| |||||| ||||||| ||||||| |||||
Sbjct: 25179620 aacttaagaacaatgtgagagtttgccTTT 25179591

Score = 52.0 bits (26), Expect = 0.002
Identities = 67/80 (83%), Gaps = 3/80 (3%)
Strand = Plus / Minus

Query: 7084 gaactcaagaacaatgtgagagtttgccTTTTtctgtatgt---ctttcatagccttgTT
7140
 ||||||| ||||||| |||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 27534411 gaactcaagaacaatgtgcatgttttccTTTTtctatgtgttttcttgatggccttgTT
27534352

Query: 7141 taatactTTTgtataaaactt 7160
 || ||||| ||||||| |||||
Sbjct: 27534351 tagtacttctgtataaaactt 27534332

Score = 52.0 bits (26), Expect = 0.002
Identities = 38/42 (90%)
Strand = Plus / Plus

Query: 1640 acaaagccttatcccactaggtggggtcggctacatggatc 1681
 ||||| ||||||| ||||||| |||| | ||||| ||||| |||||
Sbjct: 28343580 acaaaagccttatcccactatgtgaggttggtacatggatc 28343621

Score = 52.0 bits (26), Expect = 0.002

Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaa 5047
 ||||| ||||| |||||
Sbjct: 37319543 ataattttaataaactattttatgagtaaataaa 37319510

Score = 52.0 bits (26), Expect = 0.002
Identities = 35/38 (92%)
Strand = Plus / Minus

Query: 6803 cttgtgacatggtgaccaacatgcttcattgcacaatt 6840
 ||||| ||||| ||||| |||||
Sbjct: 40165109 cttgtgacatggtgaccaaatatgtttcgttgcacaatt 40165072

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaat 5149
 ||||| ||||| ||||| |||||
Sbjct: 3254768 aaaattaactggttacaaaatttattatataaat 3254800

Score = 50.1 bits (25), Expect = 0.007
Identities = 35/37 (94%), Gaps = 1/37 (2%)
Strand = Plus / Minus

Query: 5294 atcatthaatttttaaattaatttgtaaaatatatTTTT 5330
 ||||| ||||| ||||| |||||
Sbjct: 5461647 atcatthaattt-aaattaatttataaaatatatTTTT 5461612

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattattttatgaataaataaaaag 5049
 ||||| ||||| ||||| |||||
Sbjct: 6167288 aataattttaatagggttatTTTtatgagtaaataaaaag 6167252

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 6055 ataataaaaaaaaaaattaattattta 6079
 |||||
Sbjct: 10665906 ataataaaaaaaaaaattaattattta 10665882

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Plus

Query: 5742 aaaacatcaaatttgctaaaagatccttaaactttaattgaaaaa 5786
 |||||
Sbjct: 16614375 aaaatatcaaatttgcaaaaagatccttgactttaattgcaaaa 16614419

Score = 50.1 bits (25), Expect = 0.007
Identities = 64/77 (83%)
Strand = Plus / Plus

Query: 7680 gaaaacatagtaattattttcctcatcatcttgacgacatacatgccctgtactgaaaacaa
7739
 |||||
Sbjct: 18489373 gaaaacatagtcatcatgtcctcatcatcatgcaacatgcatgtcatgtactagccacaa
18489432

Query: 7740 tcaccaacaaatgatac 7756
 ||
Sbjct: 18489433 tcgccaacaaatgatac 18489449

Score = 50.1 bits (25), Expect = 0.007
Identities = 211/271 (77%), Gaps = 4/271 (1%)
Strand = Plus / Minus

Query: 6719 gatatccatttttggtgtgtatacgagaggagacatgacaacctttagaattttcttttcat
6778
 |||||
Sbjct: 26545309 gatatctattttcggtatggatacgagtgcagacaggacaacccttagtacttcttttctt
26545250

Query: 6779 ttttggggttgggggcaaattcttggccttgtagacatgggtgaccaacatgcttcattgcacaa
 6838
 ||||| ||| | || ||||| ||| ||| || ||||| ||
 Sbjct: 26545249 ttttgggtcgggggagatcattggctagtg-catgatggccaataggcttcattgtgaaa
 26545191

Query: 6839 tttcccaagtaatcatttgtacatggttatagatacttttcagcgtatacacaagatgtat
 6898
 || |||| |||| | |||| | ||| ||| |||| | | ||||| ||||| ||
 Sbjct: 26545190 ttctccaaacaatcctatgtatacgttggagacactttccaacctatacatgagatgcat
 26545131

Query: 6899 gtagttcctatactcatgggtgagcatgcttataaaca---acaacatgagaacaaaacat
 6955
 ||||| | ||||| ||||| ||||| ||| ||| ||||| ||||| ||||| |||||
 Sbjct: 26545130 gtagtttatgcactcatgatgagcatgcttacaagcagcaacaacatgagaacaaggcat
 26545071

Query: 6956 gtgcattttttgaaatttgtcacagtcacac 6986
 ||||| || || ||||| ||||| |||||
 Sbjct: 26545070 gtgcaacttctggaatttgccacaatcacac 26545040

Score = 50.1 bits (25), Expect = 0.007
 Identities = 34/37 (91%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgc 5153
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 36795110 aaaattaattatcacaaaatttattatgtaaatttgc 36795146

Score = 50.1 bits (25), Expect = 0.007
 Identities = 46/53 (86%)
 Strand = Plus / Plus

Query: 5171 attagaaatttttagtggttatatttagtgaaattaattttttataacataatt 5223
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 41890291 attagaaatttttaatttttatataataacaacattaattttttataacataatt
 41890343

Score = 48.1 bits (24), Expect = 0.026
 Identities = 30/32 (93%)
 Strand = Plus / Plus

Query: 7317 ccatgcgagagtcacttttcttgtggaatct 7348
||||||| ||||||||| |||||||||
Sbjct: 2409680 ccatgcgagaatccacttttctcgtggaatct 2409711

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
||||||| ||||||||| |||||
Sbjct: 3902519 aaaattaattgtcacaaaatttattatttaa 3902550

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 6580 aaaatatttaaatttgaaataatacaacaaaaattt 6615
||||||| || ||||||| |||||||
Sbjct: 6355945 aaaatatttaaatttaaattaatacaaaaaaaattt 6355910

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 6431 tcctttgtatttttattttatttgattattataata 6466
|||||| |||| ||||||||| |||||
Sbjct: 8224703 tcctttgcattttcattttatttgattattaaaata 8224738

Score = 48.1 bits (24), Expect = 0.026
Identities = 54/64 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
|||||| |||| | ||||||||| || ||| |||| | |||||||||
Sbjct: 17774293 aaaattagttgtcataaaaatttattatgtaagtttacatgtgtattaaatatacattaga
17774234

Query: 5177 aatt 5180

||||
Sbjct: 17774233 aatt 17774230

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 |||||
Sbjct: 38018496 aaaattaattgatacaaaatttattatataaa 38018527

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 6044 tttttatccaaataataaaaaaaaaaattaattattta 6079
 |||||
Sbjct: 40165717 tttttatccaaagaatacaaaataaattaattattta 40165682

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/52 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataat 5168
 |||||
Sbjct: 41956690 aaaattaattatcataaaatttattatttaaatttatatgcacattaaatat 41956639

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 |||||
Sbjct: 8575316 aaaattaattatcacaaaatttattatttaaattt 8575282

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 3851 gatagcaattgtaggaagtgggtatat 3877
 ||||||||||||||||||||| |||||
Sbjct: 11668537 gatagcaattgtaggaagtggatatat 11668563

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||||
Sbjct: 20098989 actttttttttaaaaaaaaaaaaaa 20098967

Score = 46.1 bits (23), Expect = 0.10
Identities = 53/63 (84%)
Strand = Plus / Plus

Query: 5123 aattgttacaaaattttattatctaaatttgcacataaaatatacattagaaatttt
5182
 ||||| ||||||||||||||| ||||| ||||||| ||||| ||| ||| |||
Sbjct: 26957348 aattgtcacaaaattttattattcaaatttacatgcacataaaatgaattacaaatgtt
26957407

Query: 5183 agt 5185
 |||
Sbjct: 26957408 agt 26957410

Score = 46.1 bits (23), Expect = 0.10
Identities = 35/39 (89%)
Strand = Plus / Minus

Query: 5291 tggatcattaatttttaaattaatttgtaaaatatatttt 5329
 ||||||||||||||||||||| || ||||||||| |||||
Sbjct: 32765865 tggatcattaatttttaaattatttcataaaatatattttt 32765827

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtggtatat 5192
 ||||| || ||||| |||||
Sbjct: 32823740 taaatatacaatataaaatTTtagtggtatat 32823770

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||| ||||| |||||
Sbjct: 34254731 ttttttttaaaaaaaaaaaaaaaca 34254753

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 ||||| || ||||| |||||
Sbjct: 45518342 aaaattaattattataaaaatttattatgttaaattt 45518308

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaagt 5573
 ||||| ||||| |||||
Sbjct: 481060 ttttttttataaaaaaaaaaaaaacaagt 481035

Score = 44.1 bits (22), Expect = 0.41
Identities = 37/42 (88%)
Strand = Plus / Minus

Query: 2005 tttattctcatgttggtcttgaccgccaacattctgttcc 2046
 ||||| ||||| || ||||| |||||
Sbjct: 1687566 tttattctcttggttggtcttttgccgccaacattcagttcc 1687525

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)

Strand = Plus / Minus

Query: 5318 aaaatatatTTTTGAAAAAAAA 5339
 |||||
Sbjct: 3551558 aaaatatatTTTTGAAAAAAAA 3551537

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 4786 aataataattaataagtaataatttt 4811
 |||||
Sbjct: 4937015 aataataattaataattaataatttt 4937040

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
 |||||
Sbjct: 5179431 aaattaaaaaatatatatttaa 5179452

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5568
 |||||
Sbjct: 6374190 ctttttttttaaaaaaaaaaaaa 6374169

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 6043 ttttttatccaaataataaaaaaaaaattaa 6072
 |||||
Sbjct: 6900975 tttttcatccaaataatacaaaaaaaattaa 6900946

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaaattaatt 6074
|||||||
Sbjct: 11126750 aaataataaaaaaaaaaattaatt 11126729

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 7179 ttgcgacttctctccccctttggttgaaca 7208
||||||| ||| |||||
Sbjct: 12599662 ttgcgacttctctccctcttttgttgaaca 12599633

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaagt 5573
||||||| |||||
Sbjct: 13975915 ttttttttaaaaaaaaaaaaaacaagt 13975890

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 23139015 cttttttttaaaaaaaaaaaaaa 23138994

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaac 5569
|||||||
Sbjct: 26547926 ttttttttaaaaaaaaaaaaaac 26547905

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 27274828 ctttttttttaaaaaaaaaaaaaa 27274849

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaaca 5570
|||||
Sbjct: 29739811 ttttttttaaaaaaaaaaaaaaca 29739790

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5566
|||||
Sbjct: 31079902 aacttttttttaaaaaaaaaaaaaa 31079881

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6259 aattgcttttttttttgttttg 6280
|||||
Sbjct: 32894080 aattgcttttttttttgttttg 32894059

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||||||
Sbjct: 34372123 tttttttttaaaaaaaaaaaaaaac 34372144

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 37469991 cttttttttaaaaaaaaaaaaaa 37469970

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||||||
Sbjct: 38248684 tttttttttaaaaaaaaaaaaaaac 38248663

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 38839833 cttttttttaaaaaaaaaaaaaa 38839854

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaactga 6516
 ||||||| |||||
Sbjct: 39645098 aaattaaaaattatatatttaactga 39645123

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)

Strand = Plus / Plus

```
Query: 2797      cttactttatttaaattcatataaaat 2822
                |||||||||||||||||||||
Sbjct: 40748538 cttactttatttaaattcatatgaaat 40748563
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 6489      tgaaattaaaaaatatatatattt 6510
                |||||||||||||||||||||
Sbjct: 41289632 tgaaattaaaaaatatatatattt 41289611
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

```
Query: 5117      aaaattaattgttacaaaatttatta 5142
                ||||||||| |||||||||||||
Sbjct: 43150819 aaaattaattattacaaaatttatta 43150844
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

```
Query: 5297      attaatttttaaattaatttgtaaaatatat 5326
                ||||||||||||||||| |||||||||
Sbjct: 44474043 attaatttttaaattaatttcataaaatatat 44474072
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

```
Query: 6046      tttatccaaataataaaaaaaaaaatta 6071
                ||||| |||||||||||||||||
Sbjct: 44675842 tttatacaaataataaaaaaaaaaatta 44675867
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 209214 ttttttttaaaaaaaaaaaaaa 209194

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggc 1671
|||||||
Sbjct: 540253 aacgccttatcccactagctgggatcggc 540225

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 1883422 ttttttttaaaaaaaaaaaaaa 1883402

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 7397 acaaataatattttattataaaa 7417
|||||||
Sbjct: 1889005 acaaataatattttattataaaa 1888985

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 2593412 ctttttttaaaaaaaaaaaaaa 2593432

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5023 ataaattatTTTtatgaataaa 5043
|||||
Sbjct: 2600866 ataaattatTTTtatgaataaa 2600846

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5290 ttggatcattaatTTTtaaattaatt 5314
|||||
Sbjct: 7114996 ttggaccattaatTTTtaaattaatt 7115020

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 7930416 ctttttttttaaaaaaaaaaaaaa 7930396

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 8765980 ttttttttttaaaaaaaaaaaaaa 8766000

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 5042 aataaaagggtttttattcttaaatttgctt 5070
 ||||| ||| |||||
Sbjct: 9217298 aataaaagatttcattcttaaatttgctt 9217270

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6492 aattaaaaaatatatatttaa 6512
 |||||
Sbjct: 9621364 aattaaaaaatatatatttaa 9621344

Score = 42.1 bits (21), Expect = 1.6
Identities = 36/41 (87%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtggggtcggctacatggat 1680
 ||||| ||| ||||| || ||| |||||
Sbjct: 10114478 acaaacgctttattccactagatgaggtctgctacatggat 10114438

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6573 atagaacaaaatatttaaatt 6593
 |||||
Sbjct: 11407642 atagaacaaaatatttaaatt 11407622

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 2582 aataatatttttttctttct 2602
 |||||
Sbjct: 11925993 aataatatttttttctttct 11926013

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 419 ttgatttattattgaaaagta 439
 |||||
Sbjct: 13174662 ttgatttattattgaaaagta 13174682

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 13975899 ttttttttaaaaaaaaaaaaaa 13975919

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 16211268 ttttttttaaaaaaaaaaaaaa 16211248

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 5123 aattggtacaaaatttattatctaaatttgcac 5159
 ||||| ||||| ||||| ||||| |||||
Sbjct: 17498565 aattgtcacaaaatttattattcaaatttacctgcac 17498601

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattag 5233
 |||| ||||| ||||| ||||| |||||
Sbjct: 17498664 attatttattttataacgtaattgatttattag 17498696

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 20451958 tttttttttaaaaaaaaaaaaaa 20451978

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 20467228 tttttttttaaaaaaaaaaaaaa 20467208

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 20550441 cttttttttaaaaaaaaaaaaaaaca 20550465

Score = 42.1 bits (21), Expect = 1.6
Identities = 51/61 (83%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcacataacattagaaattttagtgttata
5191
 |||||
Sbjct: 22470355 aaaatttattatataaatttccatctacattagatatatataaaaaattttaattattata
22470296

Query: 5192 t 5192
 |
Sbjct: 22470295 t 22470295

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 23128864 tttttttttaaaaaaaaaaaaaa 23128884
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 6135      accgatttcttaattacattttttt 6159
                |||||
Sbjct: 25180697 accgatttcttcattacattttttt 25180673
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5545      aactttttttttaaaaaaaaaaaaa 5565
                |||||
Sbjct: 25759106 aactttttttttaaaaaaaaaaaaa 25759086
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

```
Query: 5296      cattaatttttaaattaatttgtaaaatat 5324
                |||| |||||
Sbjct: 25823452 catttatttttaaattaatttgcaaaatat 25823424
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 7265      tttcttgagtaccaaattaat 7285
                |||||
```

Sbjct: 26544771 tttcttgagtaccaaattaat 26544751

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5552 ttttaaaaaaaaaaaaaacaag 5572
|||||||
Sbjct: 27380936 ttttaaaaaaaaaaaaaacaag 27380956

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 27431628 ttttttttaaaaaaaaaaaaaa 27431608

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5555 taaaaaaaaaaaaacaagtaa 5575
|||||||
Sbjct: 27462550 taaaaaaaaaaaaacaagtaa 27462530

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 6518 aagttgacttgaactaaaatatttaaatt 6546
||||||| |||||
Sbjct: 27534951 aagttgaactgaactaaaatatttaaatt 27534923

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5536 ttgttattgaactttttttta 5556
 |||||
Sbjct: 29839804 ttgttattgaactttttttta 29839824

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 31038797 aaaaaaaaaattataaaaaaat 31038777

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 32327879 ttttttttaaaaaaaaaaaaaa 32327899

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 34372138 ttttttttaaaaaaaaaaaaaa 34372118

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 34577136 ttttttttaaaaaaaaaaaaaa 34577116

Score = 42.1 bits (21), Expect = 1.6

Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 34950069 tttttttttaaaaaaaaaaaaaa 34950049

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5323 atatTTTTgaaaaaaaaaattataaa 5347
 ||||| ||||||||||||||||||
Sbjct: 35171395 atatTTtGgaaaaaaaaaattataaa 35171419

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5556 aaaaaaaaaaaaaacaagtaataaaa 5580
 |||||||||||||||||| |||||
Sbjct: 35959476 aaaaaaaaaaaaaacaagtGataaaa 35959452

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6279 tgTTTTaaaattgTTTgtattTTTa 6303
 |||||||||||||| |||||
Sbjct: 37004151 tgTTTTaaaattgTTTTtattTTTa 37004175

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4758 taactgttaatctTTTTattg 4778
 ||||||||||||||||||
Sbjct: 37319585 taactgttaatctTTTTattg 37319565

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 37644234 tttttttttaaaaaaaaaaaaaa 37644254

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatggatcaac 1684
 ||||| ||| ||||||| ||| |||||||||||||
Sbjct: 37888969 cttattccattaggtggagtcgactacatggatcaac 37889005

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatatttta 6511
 ||||||||||||||||||
Sbjct: 38736112 aaattaaaaaatatatatttta 38736092

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4880 tttttcttttatttttatttt 4900
 ||||||||||||||||||
Sbjct: 39246191 tttttcttttatttttatttt 39246171

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||

Sbjct: 39488033 tttttttttaaaaaaaaaaaaaa 39488013

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 39666894 cttttttttaaaaaaaaaaaaaa 39666914

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 6043 ttttttatccaaataataaaaaaaaaattaattattta 6079
|||| |||||
Sbjct: 40161284 ttttgtatccaaataatataaataaattaattgttta 40161320

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttt 6284
|||||
Sbjct: 41231405 cttttttttttgttttgtttt 41231425

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 41632956 tttttttttaaaaaaaaaaaaaa 41632936

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 42127472 ctttttttttaaaaaaaaaaaaaa 42127492

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 42660790 ttttttttttaaaaaaaaaaaaaa 42660770

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 42708312 gccttatcccactaggtgagattggctacatgaatca 42708276

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 44829414 ttttttttttaaaaaaaaaaaaaa 44829394

Score = 42.1 bits (21), Expect = 1.6
Identities = 66/80 (82%), Gaps = 2/80 (2%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatag
5175
 |||||
Sbjct: 44862112 aaaaattaattattataaaattaattatgttaaattt--atgtgcattaaatatatattaa
44862169

Query: 5176 aaatttttagtggttatattta 5195

```
          ||||| | |||||
Sbjct: 44862170 aaattttgatattatattta 44862189
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 4440   caattttttttttgtgagg 4459
          |||||
Sbjct: 175274 caattttttttttgtgagg 175293
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

```
Query: 2129   gatgcttttctccatttcacccatcctgcttg 2160
          ||||| |||||
Sbjct: 187155 gatgcatttctccatttcagccatcttgcttg 187124
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 6056   taataaaaaaaaaaattaattattta 6079
          |||||
Sbjct: 324772 taataaaaaaaaaaattaatattta 324795
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547   cttttttttaaaaaaaaaa 5566
          |||||
Sbjct: 1375511 cttttttttaaaaaaaaaa 1375492
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6264 cttttttttttgttttgttt 6283
|||||||
Sbjct: 1517350 cttttttttttgttttgttt 1517331

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 1547423 ttttttttaaaaaaaaaaaaaa 1547404

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 1929584 ttttttttaaaaaaaaaaaaaa 1929565

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6450 atttgattattataatacat 6469
|||||||
Sbjct: 2030432 atttgattattataatacat 2030451

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 2355898 ttttttttaaaaaaaaaaaaaa 2355879

Score = 40.1 bits (20), Expect = 6.4
Identities = 44/52 (84%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattt 6729
||||||| || ||| ||||| ||| ||| |||||
Sbjct: 2409447 atgcgacacatgaaatatcgctttggttgacccaatttttggatatccattt 2409498

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 2971888 ttttttttaaaaaaaaaaaaaa 2971869

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 3333314 ttttttttaaaaaaaaaaaaaa 3333295

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6062 aaaaaaattaattattttacccaaa 6085
||||||| |||||
Sbjct: 3572134 aaaaaaattaattattttatccaaa 3572157

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatg 5037
||||||| |||||
Sbjct: 4267192 ataattttaataaattattttatg 4267215

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 5604365 ttttttttttgttttgtttt 5604384

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5666 ttgaatagagttttgtgttcactt 5689
 ||||| |||||
Sbjct: 5894459 ttgaatggagttttgtgttcactt 5894436

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 6013028 ttttttttaaaaaaaaaaaaaa 6013009

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 3756 ttggtatcattaatgaaaattcaccaa 3783
 ||||| |||||
Sbjct: 6067619 ttggtgtcattaatgaaaattcagcaa 6067646

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 6073923 ctttttttttaaaaaaaaaaaaaa 6073904

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)

Strand = Plus / Minus

```
Query: 6580      aaaatatttaaatttgaaataatacaacaaaa 6611
              |||||
Sbjct: 6356145 aaaatatttaaatttgaaattaatacaaaaaaa 6356114
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5325      atttttgaaaaaaaaaattat 5344
              |||||
Sbjct: 6598086 atttttgaaaaaaaaaattat 6598067
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

```
Query: 3888      tttgtaaaaatgattttttttaaatgtaaaaa 3919
              ||||| ||| |||||
Sbjct: 6694354 tttgtaataattattttttttaaaagtaaaaa 6694385
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
              |||||
Sbjct: 8051015 ttttttttaaaaaaaaaaaaaa 8050996
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
              |||||
Sbjct: 8552975 ttttttttaaaaaaaaaaaaaa 8552956
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 8557295 ttttttttaaaaaaaaaaaaaa 8557276

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6326 atatttggtgttctgtttaaa 6345
 ||||||||||||||||||
Sbjct: 9540389 atatttggtgttctgtttaaa 9540408

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6326 atatttggtgttctgtttaaa 6345
 ||||||||||||||||||
Sbjct: 9558941 atatttggtgttctgtttaaa 9558960

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttggtttgtttt 6284
 ||||||||||||||||||
Sbjct: 10857407 ttttttttttggtttgtttt 10857426

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 10857676 ttttttttaaaaaaaaaaaaaa 10857695

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgttttaaaa 6288
 |||||||||||||||| ||||||||
Sbjct: 11681638 ttttttttttgttttttttaaaa 11681661

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||||
Sbjct: 12301804 ttttttttaaaaaaaaaaaaaa 12301785

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6203 tcattttttttttcaaaacc 6222
 ||||||||||||||||||||
Sbjct: 12887090 tcattttttttttcaaaacc 12887109

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
 |||||||||||||||||| ||||||||
Sbjct: 14682652 ttttttttaaaaaaacaaaaa 14682629

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5999 aaaaagaaaaaagaaatgca 6018
 |||||
Sbjct: 17986950 aaaaagaaaaaagaaatgca 17986969

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 343 aaatacatagaaaaagaggg 362
 |||||
Sbjct: 18089873 aaatacatagaaaaagaggg 18089854

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6268 tttttttgttttgttttaa 6287
 |||||
Sbjct: 18954820 tttttttgttttgttttaa 18954839

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
 ||||| |||||
Sbjct: 19493559 ttttttttaaaaaaaaaaaaaa 19493582

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6266 ttttttttgttttgtttta 6285
 |||||
Sbjct: 19656782 ttttttttgttttgtttta 19656801

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaaaca 5571
                |||||||||||||||||
Sbjct: 19741549 tttttttttaaaaaaaaaaagaaca 19741572
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5546      actttttttttaaaaaaaaaa 5565
                |||||||||||||||||
Sbjct: 19820522 actttttttttaaaaaaaaaa 19820541
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5326      tttttgaaaaaaaaaattata 5345
                |||||||||||||||||
Sbjct: 20122264 tttttgaaaaaaaaaattata 20122283
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6492      aattaaaaaatatatattta 6511
                |||||||||||||||||
Sbjct: 20302303 aattaaaaaatatatattta 20302322
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                |||||||||||||||||
Sbjct: 20552450 tttttttttaaaaaaaaaaaaaa 20552431
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6260 attgcttttttttttgtttt 6279
|||||
Sbjct: 21250193 attgcttttttttttgtttt 21250212

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
||||| |||||||
Sbjct: 21527531 aacttttctttaaaaaaaaaaaaaa 21527554

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5742 aaaacatcaaatttgctaaa 5761
|||||
Sbjct: 22031785 aaaacatcaaatttgctaaa 22031804

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
|||||
Sbjct: 22900734 ttttttttttgttttgtttt 22900753

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtatta 5232
|||| ||||||| || |||||
Sbjct: 23532655 attatatttttataacataatttatttatta 23532624

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5995 atcgaaaaagaaaaagaaa 6014
 |||||
Sbjct: 24812318 atcgaaaaagaaaaagaaa 24812337

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 25031220 ttttttttttgttttgtttt 25031201

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaa 5567
 |||||
Sbjct: 25940257 tttttttttaaaaaaaaaaaa 25940238

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 93 ttaaaaatatcagaaaactttcaaatat 120
 ||||| ||||| |||||
Sbjct: 26158735 ttaaatatatcagaaatctttcaaatat 26158708

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 27341099 tttttttttaaaaaaaaaaaaaa 27341080

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 27431613 tttttttttaaaaaaaaaaaaaa 27431632

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 ||||||| |||||
Sbjct: 27641681 aacttttctttaaaaaaaaaaaaaa 27641658

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6056 taataaaaaaaaaattaatta 6075
 ||||||| |||||
Sbjct: 29446804 taataaaaaaaaaattaatta 29446785

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5321 atatatttttgaaaaaaaaaaaaa 5340
 ||||||| |||||
Sbjct: 29727791 atatatttttgaaaaaaaaaaaaa 29727772

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaa 5566
                ||||||||||||||||
Sbjct: 30100589 ctttttttttaaaaaaaaaa 30100608
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6076      tttacccaaaaaattatttta 6095
                ||||||||||||||||
Sbjct: 30357652 tttacccaaaaaattatttta 30357671
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6076      tttacccaaaaaattatttta 6095
                ||||||||||||||||
Sbjct: 30357763 tttacccaaaaaattatttta 30357782
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaa 5566
                ||||||||||||||||
Sbjct: 30405511 ctttttttttaaaaaaaaaa 30405530
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

```
Query: 5555      taaaaaaaaaaaaacaagtaataaaaaa 5582
                ||||| ||||||| ||||||||||||
Sbjct: 32056639 taaaataaaaaaaataagtaataaaaaa 32056612
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6439 atttttattttatttgatta 6458
 |||||||
Sbjct: 33402884 atttttattttatttgatta 33402865

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5027 attattttatgaataaataa 5046
 |||||||
Sbjct: 33617468 attattttatgaataaataa 33617449

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6267 ttttttttgttttgttttaaaatt 6290
 ||||||| |||||
Sbjct: 33833284 ttttttttgttgtttttaaatt 33833261

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||||
Sbjct: 34002657 aaattaaaaaatatatattt 34002676

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5560 aaaaaaaaaacaagtaataaaaaaac 5583
 ||||||| |||||
Sbjct: 34970855 aaaaaaaaaaccagtaataaaaaaac 34970878

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||||
Sbjct: 35180579 tttttttttaaaaaaaaaaaaaa 35180560

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6488 ttgaaattaaaaaatatata 6507
 ||||||||||||||||||||
Sbjct: 35322452 ttgaaattaaaaaatatata 35322433

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6292 tttgtatttttatttttttt 6311
 ||||||||||||||||||||
Sbjct: 35685739 tttgtatttttatttttttt 35685720

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||| ||||||||||||
Sbjct: 35715650 aactttttttttaagaaaaaaaaaaaaa 35715673

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||| |||||
Sbjct: 35733403 aactttttttttaaaaaataaaaa 35733380

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5553 tttaaaaaaaaaaaaacaag 5572
 |||||||||||||||||||
Sbjct: 36082528 tttaaaaaaaaaaaaacaag 36082547

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||
Sbjct: 36490245 tttttttttaaaaaaaaaaaaaa 36490226

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||||||||||||||||
Sbjct: 36551061 aaattaaaaaatatatattt 36551042

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5570
 ||||||||| |||||||||||||
Sbjct: 36572951 cttttttttataaaaaaaaaaaaaa 36572928

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5328      tttgaaaaaaaaattataaa 5347
                |||||
Sbjct: 36589666 tttgaaaaaaaaattataaa 36589647
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

```
Query: 6296      tatttttattttttttgttattaattgt 6323
                |||||
Sbjct: 36655317 tatttttatttttattttttattaattgt 36655344
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Plus

```
Query: 1647      ccttatcccactaggtggggtcggctacatggatca 1682
                |||||
Sbjct: 36769878 ccttatcccactaggtgagttcagctacatgaatca 36769913
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 1640      acaaacgccttatcccactaggtg 1663
                |||||
Sbjct: 37096877 acaaaagccttatcccactaggtg 37096854
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 4880      tttttcttttatttttattt 4899
                |||||
Sbjct: 37473203 tttttcttttatttttattt 37473184
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5326 tttttgaaaaaaaaaattataaaaa 5349
 ||||| ||||||||||||||||
Sbjct: 37699821 tttttaaaaaaaaaaattataaaaa 37699844

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 38403602 ttttttttaaaaaaaaaaaaaa 38403583

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 40046382 ttttttttaaaaaaaaaaaaaa 40046363

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 7682 aaacatagtaattatttcct 7701
 ||||||||||||||||||
Sbjct: 40319677 aaacatagtaattatttcct 40319658

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3893 aaaaatgatttttttttaa 3912
 ||||||||||||||||||
Sbjct: 40641562 aaaaatgatttttttttaa 40641543

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 40850595 aactttttttataaaaaaaaaaaaaa 40850572

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatatattt 6510
 |||||
Sbjct: 40856025 aaattaaaaaatatatatattt 40856006

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 41218156 tttttttttaaaaaaaaaaaaaa 41218137

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5550 tttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 41261431 tttttttaaaaaaaaaaaaaaac 41261412

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 41269348 ctttttttttaaaaaaaaaa 41269329

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 6290 tgtttgatattttatatttttttgttatt 6317
||||||| ||||| |||||||
Sbjct: 41629915 tgtttgatattttatatttttttgttatt 41629942

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5568
||||||| |||||||
Sbjct: 41632960 aacttttttttaaaaaaaaaa 41632937

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 41680817 ctttttttttaaaaaaaaaa 41680798

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaattataaaaaaat 5352
|||||||
Sbjct: 41872181 aaaaaaaattataaaaaaat 41872200

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

```
Query: 6543      aattacaaaatagatatgaaatta 6566
               |||||
Sbjct: 42090078 aattacaaaataaatatgaaatta 42090055
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
               |||||
Sbjct: 42929666 ttttttttaaaaaaaaaaaaaa 42929685
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6298      tttttatttttttttgttatt 6317
               |||||
Sbjct: 43055705 tttttatttttttttgttatt 43055686
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6266      tttttttttgttttgtttta 6285
               |||||
Sbjct: 43084897 tttttttttgttttgtttta 43084916
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
               |||||
Sbjct: 43375033 ttttttttaaaaaaaaaaaaaa 43375014
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5759 aaaagatccttaaactttaattgaaaaa 5786
 |||||
Sbjct: 43470967 aaaagatccttaaattttaattaaaaaa 43470940

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 43872530 ttttttttaaaaaaaaaaaaaa 43872511

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 43873945 ttttttttaaaaaaaaaaaaaa 43873964

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaact 6514
 |||||
Sbjct: 43874504 aaattaaaaattatatatttaact 43874527

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 43938363 ctttttttttaaaaaaaaaaaaaa 43938382

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5553 tttaaaaaaaaaaaaacaag 5572
 |||||
Sbjct: 44688984 tttaaaaaaaaaaaaacaag 44688965

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggctcggtac 1674
 |||||
Sbjct: 45523834 ccttatcccactaagtgggggttggtac 45523807

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 46116020 ttttttttaaaaaaaaaaaaaa 46116039

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Plus

Query: 5180 tttagtgttatatttagtgaaattaattattttata 5215
 |||||
Sbjct: 46288693 tttagtgttatatataataatattaattattttata 46288728

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5015 taattttaataaaattatttt 5034
 |||||
Sbjct: 46325680 taattttaataaaattatttt 46325661

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 46415737 ttttttttaaaaaaaaaaaaa 46415718

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6343 aaattgaaaacaatattatttttc 6366
 |||||
Sbjct: 46436211 aaattgaaatcaatattatttttc 46436188

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 46738056 aaaaaaaattataaaaaaat 46738075

>[gb|ACUP01000106.1](#)| Glycine max chromosome 1 GLYMAchr_01_Cont106, whole
genome shotgun

 sequence
 Length = 75456

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatgggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 40190 aacgccttatcccactaggtggggctcggctacatgggatcaacttccgccataatgttcta
40131

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 40130 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
40071

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 40070 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40011

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 40010 ctctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagtctattt
39951

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 39950 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
39891

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 39890 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39831

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 39830 actttattctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
39771

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 39770 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
39711

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

|||||
Sbjct: 39710 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
39651

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242
 ||||||||||||||||||
 Sbjct: 39650 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 39591

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302
 ||||||||||||||||||
 Sbjct: 39590 ataatatggtctcctattttcacctctgagttagaaaccctcattcttttgttgaactta
 39531

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362
 ||||||||||||||||||
 Sbjct: 39530 cattccatataactccgatttgcttctgcttaggcgaaagtcatgtggttctagagctcgt
 39471

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422
 ||||||||||||||||||
 Sbjct: 39470 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 39411

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
 ||||||||||||||
 Sbjct: 39410 tctgcaaaaagcatgcatctcggcgctatctcttg 39376

Score = 40.1 bits (20), Expect = 6.4
 Identities = 20/20 (100%)
 Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||
 Sbjct: 1671 ttttttttaaaaaaaaaaaaaa 1690

>[gb|ACUP01000005.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont5, whole genome
 shotgun sequence
 Length = 359774

Score = 1592 bits (803), Expect = 0.0
 Identities = 812/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 287221 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
287280

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 287281 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
287340

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 287341 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
287400

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

|||||
Sbjct: 287401 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
287460

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 287461 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
287520

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacac
2002

|||||
Sbjct: 287521 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacac
287580

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 287581 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
287640

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 287641 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
287700

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 287701 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
287760

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 287761 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
287820

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 287821 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaactta
287880

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 287881 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
287940

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 287941 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
288000

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 288001 tctgcaaaaagcatgcatctcggcgctatctcttg 288035

Score = 149 bits (75), Expect = 1e-32
Identities = 117/131 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 263130 aaaattaattgtcacaaaatttattatgtaaatttatatgtacattaaatatacattata
263189

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||

Sbjct: 263190 aatttttagtggttatatatagtgacattaattatttttataacataattgacttactagctt
 263249

Query: 5237 agttgggttaga 5247
 |||||
 Sbjct: 263250 agttgggttaga 263260

Score = 105 bits (53), Expect = 1e-19
 Identities = 113/133 (84%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaataacattag
 5175
 |||||
 Sbjct: 262935 aaaaattaatcggttataaaaatttattacgtaaacttacatgtgcattaaatatattag
 262876

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235
 |||||
 Sbjct: 262875 aaatttttagtattatatataataatattaattattttataacataattggtctattagct
 262816

Query: 5236 cagttgggttagag 5248
 |||||
 Sbjct: 262815 tagttgatttagag 262803

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 59/66 (89%)
 Strand = Plus / Minus

Query: 5275 aagttcaattcttacttggatcattaatttttaaattaatttgtaaaatatatttttgaaa
 5334
 |||||
 Sbjct: 59979 aagttcgattattgcttagaccattaatttttaaattaatttgtaaaatatatttttgaaa
 59920

Query: 5335 aaaaaa 5340
 |||||
 Sbjct: 59919 gaaaaa 59914

Score = 73.8 bits (37), Expect = 5e-10

Identities = 55/61 (90%)
Strand = Plus / Minus

Query: 5130 acaaaatattattatctaaatttgcatgcacaataaatatacattagaaattttagtggtta
5189
|||||
Sbjct: 60089 acaaaatattattatgtaaatttacatgtacattaaatataaaattaaaaattttagtggtta
60030

Query: 5190 t 5190
|
Sbjct: 60029 t 60029

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 5297 attaatatttaaatttaatttgtaaaatatatattttt 5330
|||||
Sbjct: 99910 attaatatttaaattatattttataaaatatatattttt 99943

Score = 50.1 bits (25), Expect = 0.007
Identities = 46/53 (86%)
Strand = Plus / Plus

Query: 6580 aaaatatttaaatttgaaataataacaacaaaaatttttaaatacaaacataat 6632
|||||
Sbjct: 37294 aaaatatttaaatttgaaataataacaacaaaaatttttaaatacaaacataat 37346

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 20237 ttttttttaaaaaaaaaaaaaa 20218

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 |||||
 Sbjct: 199636 aacttttttataaaaaaaaaaaaaa 199613

Score = 40.1 bits (20), Expect = 6.4
 Identities = 23/24 (95%)
 Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 |||||
 Sbjct: 211365 aacttttttataaaaaaaaaaaaaa 211388

>[gb|CM000851.1](#) Glycine max chromosome 18, whole genome shotgun sequence
 Length = 62308140

Score = 1592 bits (803), Expect = 0.0
 Identities = 812/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 7987844 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 7987785

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
 1762
 |||||
 Sbjct: 7987784 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
 7987725

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
 |||||
 Sbjct: 7987724 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 7987665

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882
 |||||
 Sbjct: 7987664 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 7987605

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

|||||
Sbjct: 7987604 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
7987545

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 7987544 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
7987485

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 7987484 actttattctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
7987425

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 7987424 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
7987365

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 7987364 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
7987305

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 7987304 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
7987245

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 7987244 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
7987185

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

|||||
Sbjct: 7987184 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
7987125

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 7987124 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
7987065

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 7987064 tctgcaaaaagcatgcatctcggcgctatctcttg 7987030

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 17487972 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17487913

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 17487912 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
17487853

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 17487852 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
17487793

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcatttt
1882

|||||
Sbjct: 17487792 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcatttt
17487733

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 17487732 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
17487673

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||

Sbjct: 17487672 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
 17487613

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 17487612 actttattctcatgttggtccttgactgccaacattctgttccgtacaaaatcgccggt
 17487553

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
 2122

|||||
 Sbjct: 17487552 cttaccgcagtcgataaaaactttcccttagcttgattggtaccttgcacataac
 17487493

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 2182

|||||
 Sbjct: 17487492 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 17487433

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 17487432 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 17487373

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
 2302

||| |||||
 Sbjct: 17487372 atagtatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
 17487313

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 17487312 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 17487253

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 17487252 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 17487193

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
 |||||

Sbjct: 17487192 tctgcaaaaagcatgcatctcggcgctatctcttg 17487158

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 6844405 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
6844464

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 6844465 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
6844524

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 6844525 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
6844584

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 6844585 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
6844644

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 6844645 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
6844704

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 6844705 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
6844764

Query: 2003 actttattctcatgttgggtcttggaccgcccacattctgttccgtacaaaatcgccgggt
2062
 |||||||||||||||||||||||||||| |||||||||||||||| ||||||||||||||||
Sbjct: 6844765 actttattctcatgttgggtcttggaccgcccacattctgttccgtacaaaatcgccgggt
6844824

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 6844825 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
6844884

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 6844885 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
6844944

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 6844945 tcaatttcccatcatcctgtattacagacccaaaatatttaaaccgtgtgacttgaggg
6845004

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 6845005 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
6845064

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

|||||
Sbjct: 6845065 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
6845124

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 6845125 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
6845184

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 6845185 tctgcaaaaagcatgcatcttggcgctatctcttg 6845219

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 21174589 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
21174648

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 21174649 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
21174708

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

Sbjct: 21174709 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
21174768

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 21174769 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
21174828

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

Sbjct: 21174829 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
21174888

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 21174889 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
21174948

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

Sbjct: 21174949 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
21175008

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 21175009 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
21175068

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||

Sbjct: 21175069 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
21175128

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 21175129 tcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgagga
21175188

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 21175189 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
21175248

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 21175249 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
21175308

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 21175309 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
21175368

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 21175369 tctgcaaaaagcatgcatctcggcgctatctcttg 21175403

Score = 1584 bits (799), Expect = 0.0
Identities = 812/815 (99%), Gaps = 1/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 29209501 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
29209560

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 29209561 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
29209620

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 29209621 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
29209680

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

|||||
Sbjct: 29209681 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
29209740

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|| |||||
Sbjct: 29209741 tctaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
29209800

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 29209801 attttatcctgttgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29209860

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 29209861 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
29209920

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 29209921 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
29209980

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 29209981 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
29210040

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 29210041 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
29210100

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 29210101 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
29210160

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 29210161 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc-cgt
29210219

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 29210220 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29210279

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 29210280 tctgcaaaaagcatgcatctcggcgctatctcttg 29210314

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 32100934 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
32100993

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 32100994 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttaataacctctctt
32101053

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 32101054 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
32101113

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||

Sbjct: 32101114 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
32101173

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 32101174 tccaccatcttctctaaaaataggcgctactccaaccctctctctaatagcttcgtttcta
32101233

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 32101234 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
32101293

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcgctacaaaatcgccggt
2062

|||||
Sbjct: 32101294 actttattctcatggttggtctcttgaccgccaacattctgttcgctacaaaatcgccggt
32101353

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 32101354 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
32101413

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 32101414 acccctgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
32101473

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

|||||
Sbjct: 32101474 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
32101533

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 32101534 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
32101593

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 32101594 cattccatataactccgatttggttctgcttaggcgaaagccatgtgtttctagagctcgt
32101653

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 32101654 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
32101713

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 32101714 tctgcaaaaagcatgcatctcggcgctatctcttg 32101748

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 33444311 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
33444370

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 33444371 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
33444430

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 33444431 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
33444490

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

|||||
Sbjct: 33444491 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
33444550

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 33444551 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
33444610

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 33444611 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
33444670

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 33444671 actttattctcatgttggctcttgaccaccaacattctgttccgtacaaaatcgccggt
33444730

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 33444731 cttaccgcagtcgataaaaactttctcttagcttgatcggtacctttgcatcacataac
33444790

Query: 2123 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 33444791 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
33444850

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 33444851 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
33444910

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 33444911 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
33444970

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 33444971 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
33445030

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 33445031 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
33445090

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 33445091 tctgcaaaaagcatgcatcttggcgctatctcttg 33445125

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 45487471 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
45487530

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 45487531 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
45487590

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 45487591 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
45487650

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
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Sbjct: 45487651 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
45487710

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 45487711 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
45487770

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 45487771 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
45487830

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||

Sbjct: 45487831 actttattctcatgttggctcttgaccgccaacattttgttcggtacaaaatcgccggt
 45487890

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 45487891 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 45487950

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 45487951 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 45488010

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaacggtgtgacttgaggg
 2242

|||||
 Sbjct: 45488011 tcaatttcccatcatcctgtattacagaccaagatatttaaacggtgtgacttgaggg
 45488070

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 45488071 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 45488130

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 45488131 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 45488190

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 45488191 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 45488250

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 45488251 tctgcaaaaagcatgcatctcggcgctatctcttg 45488285

Score = 1584 bits (799), Expect = 0.0
 Identities = 811/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 47790191 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatggttcta
47790250

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 47790251 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
47790310

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 47790311 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
47790370

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 47790371 ctctcactacaaagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
47790430

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 47790431 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
47790490

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 47790491 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
47790550

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 47790551 actttattctcatgttggtccttgaccgccaacattctgttcggtacaaaatcaccggt
47790610

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 47790611 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
47790670

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 47790671 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
47790730

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 47790731 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
47790790

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 47790791 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
47790850

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 47790851 cattccatataactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
47790910

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 47790911 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
47790970

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 47790971 tctgcaaaaagcatgcatctcggcgctatctcttg 47791005

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 34200027 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
34199968

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 34199967 tcaagtaccatactttctatccaaatcattaagttcaagatcctttttgataacctctctt
34199908

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 34199907 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
34199848

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 34199847 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
34199788

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 34199787 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
34199728

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 34199727 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
34199668

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 34199667 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
34199608

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 34199607 cttaccgtagtcgataaaaactttccctttaacttgatcggtacctttgcatcacataac
34199548

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 34199547 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
34199488

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 34199487 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
34199428

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 34199427 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
34199368

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 34199367 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
34199308

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 34199307 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
34199248

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 34199247 tctgcaaaaagcatgcatctcggcgctatctcttg 34199213

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 47821981 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
47822040

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 47822041 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
47822100

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 47822101 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggttact
47822160

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 47822161 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
47822220

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 47822221 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
47822280

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 47822281 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
47822340

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 47822341 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
47822400

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 47822401 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
47822460

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 47822461 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
47822520

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 47822521 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
47822580

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 47822581 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
47822640

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 47822641 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
47822700

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 47822701 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
47822760

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 47822761 tctgcaaaaacatgcatctcggcgctatctcttg 47822795

Score = 1570 bits (792), Expect = 0.0
Identities = 801/804 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 29668326 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
29668267

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 29668266 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
29668207

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 29668206 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
29668147

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

|||||
Sbjct: 29668146 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
29668087

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||

Sbjct: 29668086 tccaccatcttctctataataggcgctactccaaccctctctctaatagcttcgtttcta
29668027

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 29668026 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29667967

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 29667966 actttattctcatggttggtccttgaccgccaacattttgttccgtacaaaatcgccggt
29667907

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 29667906 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
29667847

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 29667846 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
29667787

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 29667786 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
29667727

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 29667726 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
29667667

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 29667666 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
29667607

Query: 2363 ctccaagtttccaaccctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 29667606 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29667547

Query: 2423 tctgcaaaaagcatgcatctcggc 2446
|||||||
Sbjct: 29667546 tctgcaaaaagcatgcatctcggc 29667523

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 1119941 aacgccttatcccactaggtgggatcggctacatggatcaacttccgccataatgttcta
1120000

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 1120001 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1120060

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 1120061 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1120120

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||||
Sbjct: 1120121 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1120180

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942
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Sbjct: 1120181 tccaccatcttctctgcaataggcgctactccaaccctctctctaataagcttcggtttcta
1120240

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 1120241 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1120300

Query: 2003 actttattctcatggttggtcttgaccgcccacattctgttcgtaaaaaatcgccggt
2062

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Sbjct: 1120301 actttattctcatggttggtcttgaccgcccacattctgttcgtaaaaaatcgccggt
1120360

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 1120361 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
1120420

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 1120421 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
1120480

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 1120481 tcaatttcccatcatcctgtattatagaccaagatatttaaaccgtgtgacttgaggg
1120540

Query: 2243 ataatatggtctcctatttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 1120541 ataatatggtctcctatttcacctctgagttagaaaccctccttcttttggtgaactta
1120600

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 1120601 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
1120660

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 1120661 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
1120720

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 1120721 tctgcaaaaagcatacatctcggcgctatctcttg 1120755

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 22497754 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
22497695

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 22497694 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
22497635

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 22497634 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
22497575

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
1882

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Sbjct: 22497574 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
22497515

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttcta
1942

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Sbjct: 22497514 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttcta
22497455

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 22497454 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
22497395

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 22497394 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
22497335

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 22497334 cttatcgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 22497275

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 22497274 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 22497215

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

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 Sbjct: 22497214 tcaatttcccatcatcctgtattacagaccaagatatattacaccgtgtgacttgaggg
 22497155

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 22497154 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 22497095

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 22497094 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 22497035

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 22497034 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
 22496975

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1568 bits (791), Expect = 0.0
 Identities = 809/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 58944786 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 58944727

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 58944726 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
58944667

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggctact
1822

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Sbjct: 58944666 atagtctttttgggtcttctctacctcgaattgtttgtcttctctccatctggctact
58944607

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 58944606 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
58944547

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 58944546 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
58944487

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 58944486 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
58944427

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 58944426 actttattctcatgttggcgcttgaccgccaacattctgttcggtacaaaatcgccggt
58944367

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 58944366 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
58944307

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 58944306 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
58944247

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 58944246 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
58944187

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 58944186 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
58944127

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 58944126 cattccatataactccgatttgcttctgcttaggcgaaggccatgtgtttctagagctcgt
58944067

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 58944066 ctccaagtttccaacctctcattcaactcctccctcgactctccaaagagaactatgtca
58944007

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 58944006 tctgcaaaaacatgcatctcggcgctatctcttg 58943972

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 11492667 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
11492608

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 11492607 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
11492548

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 11492547 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
11492488

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 11492487 cttctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
11492428

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 11492427 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
11492368

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 11492367 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
11492308

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 11492307 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
11492248

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 11492247 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
11492188

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 11492187 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
11492128

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 11492127 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
11492068

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 11492067 ataatatgggtctcctatttttcacctttgagttataaaccctccttcttttgttgaactta
11492008

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 11492007 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
11491948

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 11491947 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
11491888

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 11491887 tctgcaaaaagcatgcatctcggcgctatctcttg 11491853

Score = 1560 bits (787), Expect = 0.0

Identities = 808/815 (99%)

Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 16776059 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
16776000

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 16775999 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
16775940

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 16775939 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
16775880

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 16775879 ctctcactacagagtctaccgggttttctctctacatgcccaaaccacctaagtctattt
16775820

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 16775819 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
16775760

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 16775759 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
16775700

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 16775699 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
16775640

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 16775639 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
16775580

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 16775579 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
16775520

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 16775519 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
16775460

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 16775459 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
16775400

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 16775399 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
16775340

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 16775339 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
16775280

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 16775279 tctgcaaaaagcatgcatctcggcgctatctcttg 16775245

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 55591619 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
55591560

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 55591559 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttgataacctctctt
55591500

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 55591499 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
55591440

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 55591439 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
55591380

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 55591379 tccaccatcttctctacaatagacgtcactccaaccctctctctaataagcttcgtttcta
55591320

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 55591319 attttatcctatcgagttcttaccacacatccaccacaacatcctcatctccgctacacct
55591260

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 55591259 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
55591200

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
2122

|||||
Sbjct: 55591199 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
55591140

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 55591139 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
55591080

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 55591079 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
55591020

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 55591019 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
55590960

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 55590959 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
55590900

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 55590899 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
55590840

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 55590839 tctgcaaaaagcatgcatctcggcgctatctcttg 55590805

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 112436 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
112495

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 112496 tcaagtaccatacttctatccaaatcattaagtgcgagatccttttttataacctctctt
112555

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 112556 atagtctttttgggtcttcctctacctcgaattgtttgtcttctctccatctgggtctact
112615

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
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Sbjct: 112616 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
112675

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
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Sbjct: 112676 tccaccatcttctctacaataggcggtactccaaccctctctctaatagtctcgtttcta
112735

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 112736 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
112795

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 112796 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
112855

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 112856 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
112915

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 112916 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
112975

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 112976 tcaatttccccatcatcctgtattacagaccaagatatattaaaccatgtgacttgaggg
113035

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 113036 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
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Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 113096 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
113155

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 113156 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
113215

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 113216 tctgcaaaaagcatgcatctcggcgactatctcttg 113250

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 812388 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
812447

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 812448 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
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Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
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Sbjct: 812508 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
812567

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

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Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
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Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
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Sbjct: 812748 actttattctcatgttggtccttgaccgtccaacattttgttccgtacaaaatcgccggt
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Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
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Sbjct: 812808 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
812867

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

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Sbjct: 812868 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
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Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
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813047

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2362

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813107

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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813167

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1552 bits (783), Expect = 0.0

Identities = 807/815 (99%)

Strand = Plus / Minus

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1702

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Sbjct: 9192394 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
9192335

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 9192334 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
9192275

Query: 1763 atagtccttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 9192274 atagtccttttgggtcttcctctgcctcgaatagtttgtcttctctccatctgggtctact
9192215

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 9192214 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
9192155

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
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Sbjct: 9192154 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
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Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgtacacct
2002

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Sbjct: 9192094 attttatcctgttgagtccttaccacacatccaccacaacatcctcatctctgtacacct
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Query: 2003 actttattctcatgttggtccttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 9192034 actttattctcatgttggtccttgaccgccccaacattctgttcggtacaaaatcgccggt
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Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
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Sbjct: 9191974 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
9191915

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 9191914 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
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Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 9191854 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
9191795

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 9191794 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
9191735

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 9191734 cattccatataactccgatttgcttctgcttaggcgaaagtcatgtgtttctagagctcgt
9191675

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 9994529 aacgtcttatcccactaggtggggtcggctacatggatcaacttccgccataatattcta
9994470

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 9994469 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttataacctctctt
9994410

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 9994349 cttctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
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Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
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9993870

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 9993869 cattccatatacttcgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
9993810

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 9993809 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
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Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 9993749 tctgcaaaaagcatgcatctcggcgctatctcttg 9993715

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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20371136

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 20371135 tcaagtaccatacttctatccaaatcattaagtttgagatcctttttataacctctctt
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Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
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2062

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Sbjct: 20370835 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
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2182

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Sbjct: 20370715 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
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Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 20370655 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
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2302

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Sbjct: 20370595 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
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2362

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Sbjct: 20370535 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
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Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 20370475 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
20370416

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Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
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35922005

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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35922065

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
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35922185

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35922245

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35922305

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 35922306 actttattctcatgttggctcttgactgcccacattctgttctgtacaaaatcgctcggt
35922365

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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35922425

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

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Sbjct: 35922426 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
35922485

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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35922545

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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35922605

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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35922665

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 35922666 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
35922725

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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39606500

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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39606560

Query: 1763 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 39606561 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact
39606620

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

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39606680

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
1942

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39606740

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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39606800

Query: 2003 actttattctcatgttggtcttggaccgccaacattctgttccgtacaaaatcgccggt
2062

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39606860

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 39606861 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
39606920

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 39606921 acccccgatgcttttctccatttcatccatcctgcttgaatgccatgattcacatccct
39606980

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 39606981 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
39607040

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 39607041 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
39607100

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 39607101 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
39607160

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 39607161 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
39607220

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 39607221 tctgcaaaaagcatgcatctcggcgctatctcttg 39607255

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 55399393 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
55399452

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 55399453 tcaagtaccatacttctatccaaaccattgagttcgagatcctttttgataacctctctt
55399512

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 55399513 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
55399572

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 55399573 ctctcactacaaagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
55399632

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 55399633 tccaccatcttctctacaataggcgctactccaaccctcttctctaatagcttcgtttcta
55399692

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 55399693 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
55399752

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 55399753 actttattctcatgttgggtcttgaccgcccagcattctgttccgtacaaaatcgccggt
55399812

Query: 2063 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 55399813 ctaccgcagtcgataaaaactttccctttatcttgatcggtacctttgcatcacataac
55399872

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|
Sbjct: 55399873 atcccgatgcttttctccatttcatccatcctacttgaatgcgatgattcacatcccct
55399932

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 55399933 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
55399992

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 55399993 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
55400052

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 55400053 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
55400112

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 55400113 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
55400172

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 55400173 tctgcaaaaagcatgcatctcggcgctatctcttg 55400207

Score = 1542 bits (778), Expect = 0.0
Identities = 808/817 (98%), Gaps = 2/817 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 53219856 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
53219797

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 53219796 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
53219737

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 53219736 atagtctttttgggtcttcctctgcctcgaatgtttgtcttctctccatctgggtctact
53219677

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 53219676 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
53219617

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 53219616 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
53219557

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 53219556 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
53219497

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 53219496 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
53219437

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 53219436 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
53219377

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

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Sbjct: 53219376 acccccgatgcttttctccatttcatccatcctgcttgaatgcaatgattcacatcccct
53219317

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 53219316 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
53219257

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 53219256 ataatatggtctcctattttccacctctgagttaaaaaccctccttcttttgttgaactta
53219197

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362
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Sbjct: 53219196 cattccatataactccgatttgcttctacttaggcgaaagccatgtgtttctagagctcgt
53219137

Query: 2363 ctccaagtttccaacc--tctcattcaactcctccctcgactctccaaggaggactatgt
2420
|||||
Sbjct: 53219136 ctccaagtttccaacctctctcattcaactcctccctcgactctccaaggaggactatgt
53219077

Query: 2421 catctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 53219076 catctgcaaaaagcatgcatctcggcgctatctcttg 53219040

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 59079438 aacgccttatcccattaggtggggtcgggtacatggatcaacttccgctcataatgttctg
59079497

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 59079498 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttataacctctctt
59079557

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 59079558 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctgggtctact
59079617

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882
|||||
Sbjct: 59079618 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
59079677

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
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Sbjct: 59079678 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
59079737

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 59079738 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
59079797

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 59079798 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgctcggt
59079857

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 59079858 cttactgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
59079917

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 59079918 acccccgatgcttttctccatttcatccatcctgcttgaatgcaatgattcacatccct
59079977

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 59079978 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
59080037

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 59080038 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
59080097

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 59080098 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
59080157

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 59080158 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
59080217

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 59080218 tctgcaaaaagcatgcatctcggcgctatctcttg 59080252

Score = 1507 bits (760), Expect = 0.0
Identities = 803/816 (98%), Gaps = 1/816 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 52326335 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
52326394

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 52326395 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
52326454

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822
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Sbjct: 52326455 atagtctttttgggtcttctctgcctcgaattgttttcttctctccatctggtctact
52326514

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 52326515 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
52326574

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 52326575 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
52326634

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 52326635 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
52326694

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 52326695 actttagtctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
52326754

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 52326755 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
52326814

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 52326815 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
52326874

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 52326875 tcaatttctccatcatcctgtattacagaccaagatatttaaaccatgtgacttgaggg
52326934

Query: 2243 ataatatggtctcctatttt-cacctctgagttagaaaccctccttcttttggtgaactt
2301

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Sbjct: 52326935 ataatatggtctcctattttgcacctctgagttagataccctcctacttttggtgaactt
52326994

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
2361

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Sbjct: 52326995 acattccatataactccgatttacttctgcttaggcgaaagccatgtgtttctagagctcg
52327054

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

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Sbjct: 52327055 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
52327114

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 52327115 atctgcaaaaagcatgcatctcggcgctatctcttg 52327150

Score = 1505 bits (759), Expect = 0.0
Identities = 801/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 54723789 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
54723730

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 54723729 tcaagtaccatacttctatccaaattattaagttcagagatccttcttgataacctctctt
54723670

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

|||||
Sbjct: 54723669 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
54723610

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 54723609 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
54723550

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 54723549 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
54723490

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 54723489 attttatcatgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
54723430

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 54723429 actttagtctcatgttgggtcttgatcgccaacattctgttccgtacaaaatcgccgggt
54723370

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 54723369 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
54723310

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 54723309 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
54723250

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 54723249 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
54723190

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 54723189 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
54723130

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 54723129 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
54723070

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 54723069 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
54723010

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 54723009 tctgcaaaaagcatgcatctcggcgctatctcttg 54722975

Score = 1505 bits (759), Expect = 0.0
Identities = 801/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 56722261 aacgccttattccactaggtggggctcggctacatggatcaacttccgtcataatgttcta
56722202

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 56722201 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttataacctctctt
56722142

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 56722141 atagtctttttgggtcttcctctgcctcgaatagttgtcttctctccatctggtctact
56722082

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

| |||||
Sbjct: 56722081 attctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
56722022

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 56722021 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
56721962

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 56721961 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
56721902

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 56721901 actttattctcatggttggtctcttgacctccaacattctgttcggtacaaaatcgccggt
56721842

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 56721841 cttaccgtagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
56721782

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 56721781 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
56721722

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 56721721 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
56721662

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 56721661 ataatatggtctcctattttcacctttgagttagaaaccctccttcttttgttgaactta
56721602

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 56721601 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
56721542

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 56721541 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
56721482

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 56721481 tctgcaaaaagcatgcatctcggcgctgtctcttg 56721447

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 50330624 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
50330683

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 50330684 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
50330743

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 50330744 atagtctttttgggtctttctctgctcgaattgtttgtcttctctccatctggtctact
50330803

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 50330804 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
50330863

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 50330864 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtccgtttcta
50330923

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 50330924 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccactacacct
50330983

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 50330984 actttagtctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
50331043

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 50331044 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
50331103

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 50331104 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
50331163

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 50331164 tctatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
50331223

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 50331224 ataatatgggtctcctatattttcacctctgagttagataccctcctactttttgttgagctta
 50331283

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 50331284 cattccatataactctgatttgcttctacttaggcgaaagccatgtggttctagagctcgt
 50331343

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 50331344 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 50331403

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 50331404 tctgcaaaaagcatgcatctcggcgctatctcttg 50331438

Score = 1481 bits (747), Expect = 0.0
 Identities = 798/815 (97%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 43695940 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 43695999

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 43696000 tcaagtaccatacttctattcaaatcatthaagttcgagatcctttttgataacctctctt
 43696059

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
 1822

|||||
 Sbjct: 43696060 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
 43696119

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 43696120 ctctcactacagagtctaccgggtcttctctctacgtgcccaaactacctaagtctattt
 43696179

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 43696180 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
43696239

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 43696240 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
43696299

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 43696300 actttattctcatggttggtctcttgaccgccaacattctattctgtacaaaatcgccggt
43696359

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 43696360 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttacatcacatagc
43696419

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 43696420 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
43696479

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 43696480 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
43696539

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 43696540 ataatatggtctcctattttcacctctgagttataaaccatccttcttttggtgaactta
43696599

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 43696600 catttcatataactccgattttcttctgcttaggcgaaaaccatgtgtttctagagctcgt
43696659

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 43696660 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
43696719

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 43696720 tctgcaaaaagcatgcatctcggcgctatctcttg 43696754

Score = 1475 bits (744), Expect = 0.0
Identities = 789/804 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 4860170 aacgtcttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
4860229

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 4860230 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
4860289

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 4860290 atagtctttttgggtcttcctctgccttgaattgtttgcctttcctccatctgggtctact
4860349

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 4860350 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
4860409

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggtttcta
1942

|||||
Sbjct: 4860410 tccaccatcttctctataataggcgctactccaaccctctctctaatagtccggtttcta
4860469

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||

Sbjct: 4860470 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 4860529

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 4860530 actttattctcatgttggctcttgatcgcccacattctgttccgtacaaaatcgctcggt
 4860589

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 4860590 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 4860649

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

|||||
 Sbjct: 4860650 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 4860709

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 4860710 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 4860769

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 4860770 ataatatgatctcctattttccctctgagttagataccctccttcttttgttgaactta
 4860829

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 4860830 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 4860889

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 4860890 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 4860949

Query: 2423 tctgcaaaaagcatgcatctcggc 2446

|||||
 Sbjct: 4860950 tctgcaaaaagcatgcatctcggc 4860973

Score = 1465 bits (739), Expect = 0.0
Identities = 751/755 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 45465351 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
45465292

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 45465291 tcaagtaccatacttctatctaaaccattaatttcgagatcctttttgataacctctctt
45465232

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 45465231 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
45465172

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
1882
|||||
Sbjct: 45465171 ctctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagtcctattt
45465112

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
|||||
Sbjct: 45465111 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
45465052

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 45465051 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45464992

Query: 2003 actttattctcatggtgggtcttgaccgccaacatttctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 45464991 actttattctcatggtgggtcttgaccgccaacatttctgttccgtacaaaatcgccgggt
45464932

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 45464931 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
45464872

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 45464871 acccccaatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
45464812

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 45464811 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
45464752

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 45464751 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
45464692

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 45464691 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
45464632

Query: 2363 ctccaagtttccaacctctcattcaactcctcct 2397

|||||
Sbjct: 45464631 ctccaagtttccaacctctcattcaactcctcct 45464597

Score = 1449 bits (731), Expect = 0.0
Identities = 740/743 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 1224851 aacgccttatcctactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1224910

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 1224911 tcaagtaccatactttctatccaaaccattaatttcgagatcctttttgataacctctctt
1224970

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 1224971 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1225030

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 1225031 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1225090

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 1225091 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1225150

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 1225151 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1225210

Query: 2003 actttattctcatggttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 1225211 actttattctcatggttgactcttgaccgccaacattctgttccgtacaaaatcgccggt
1225270

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 1225271 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
1225330

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 1225331 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
1225390

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||

Sbjct: 1225391 tcaatttaccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 1225450

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 2302

|||||
 Sbjct: 1225451 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 1225510

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 1225511 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 1225570

Query: 2363 ctccaagtttccaacctctcatt 2385

|||||
 Sbjct: 1225571 ctccaagtttccaacctctcatt 1225593

Score = 1404 bits (708), Expect = 0.0
 Identities = 714/716 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 6575580 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 6575639

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
 1762

|||||
 Sbjct: 6575640 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
 6575699

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 6575700 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 6575759

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 6575760 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 6575819

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
|||||
Sbjct: 6575820 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
6575879

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 6575880 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
6575939

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 6575940 actttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
6575999

Query: 2063 cttaccgcagtcggataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 6576000 cttaccgcagtcggataaaaactttccctttagcttgatcggtacctttgcatcacataac
6576059

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182
|||||
Sbjct: 6576060 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccg
6576119

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242
|||||
Sbjct: 6576120 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
6576179

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302
|||||
Sbjct: 6576180 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
6576239

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc 2358
|||||
Sbjct: 6576240 cattccatataactccgatttgcttctggttaggcgaaagccatgtgtttctagagc
6576295

Score = 1279 bits (645), Expect = 0.0
Identities = 654/657 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 17175846 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17175787

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 17175786 tcaagtaccatacttctatccaaaccattgagttcgagatcctttttgataacctctctt
17175727

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 17175726 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgatctact
17175667

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctat
1882
|||||
Sbjct: 17175666 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctat
17175607

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942
|||||
Sbjct: 17175606 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
17175547

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 17175546 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
17175487

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 17175486 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
17175427

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 17175426 cttaccgcagtcgataaaactttcccttagcttgatcggtacctttgcatcacataac
17175367

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 17175366 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
17175307

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 17175306 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
17175247

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaac
2299

|||||
Sbjct: 17175246 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaac
17175190

Score = 979 bits (494), Expect = 0.0
Identities = 547/564 (96%), Gaps = 3/564 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 3073737 aacgccttatcccactaggtgaggtcggtacatggatcaatttccgccataatgttcta
3073678

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

| |||||
Sbjct: 3073677 ttaagtactatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
3073618

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 3073617 atagtctttttgggttttcctctgcctcgaattgtttgtcttctctccatctgggtctact
3073558

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||

Sbjct: 3073557 ctctcactacagagtctaccggtcttctctctacatgcctaaaccacctaagtctattt
3073498

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 3073497 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
3073438

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 3073437 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
3073378

Query: 2003 actttattctcatggttggtctctgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 3073377 actttattctcatggttggtctctgactgcccacattctgttccgtacaaaatcgccggt
3073318

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 3073317 cttaccgca---cgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
3073261

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

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Sbjct: 3073260 atctccgatgcttttctccatttcatccattctgcttgaatgcatgattcacatcccct
3073201

Query: 2183 tcaatttcccatcatcctgtatt 2206

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Sbjct: 3073200 tcaatttcccatcatcctgtatt 3073177

Score = 958 bits (483), Expect = 0.0
Identities = 492/495 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 9361295 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
9361236

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 9361235 tcaagtatcatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
9361176

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 9361175 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
9361116

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 9361115 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
9361056

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

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Sbjct: 9361055 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
9360996

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 9360995 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
9360936

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcgtaaaaaatcgccggt
2062

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Sbjct: 9360935 actttattctcatgttgggtcttgaccgccaacattctgttcgtaaaaaatcgccggt
9360876

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 9360875 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
9360816

Query: 2123 acccccgatgctttt 2137

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Sbjct: 9360815 acccccgatgctttt 9360801

Score = 956 bits (482), Expect = 0.0
Identities = 503/510 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 26481246 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
26481305

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 26481306 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
26481365

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 26481366 atagtctttttgggtcttcctctgccttgaattgtttgtcttctctccatctgggtctact
26481425

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 26481426 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
26481485

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 26481486 tccaccatcttctctacaataggcggttactccaaccctctctctaatagtctcgtttcta
26481545

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 26481546 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
26481605

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 26481606 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
26481665

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 26481666 cttaccatagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
26481725

Query: 2123 aaccccgatgcttttctccatttcatccat 2152
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Sbjct: 26481726 aaccccgatgcttttctccatttcatccat 26481755

Score = 819 bits (413), Expect = 0.0
Identities = 428/433 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 56188042 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
56188101

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 56188102 tcaagtatcatacttctatccaaaccattgattttgagatcctttttgataacctctttt
56188161

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 56188162 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
56188221

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 56188222 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
56188281

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
 ||||||||||||||||||||||||||||||||||||| |||||||||||||||||||||
Sbjct: 56188282 tccaccatcttctctacaataggcgctactcccaccctctctctaataagcttcgtttcta
56188341

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 |||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 56188342 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
56188401

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 56188402 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
56188461

Query: 2063 cttaccgcagtc 2075
 ||||||||||||
Sbjct: 56188462 cttaccgcagtc 56188474

Score = 549 bits (277), Expect = e-153
Identities = 295/301 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttcgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 46267513 aacgccttatccactaggtggggctcggctacatggatcaacttcgccataatgttcta
46267454

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 46267453 tcaagtaccatacttctatctaaatcattaagttcgagatccttcttgataacctctctt
46267394

Query: 1763 atagtctttttgggtcttctctctgcctcgaattgtttgtcttctctccatctggtctact
1822
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 46267393 atagtctttttgggtcttctctctgcctcgaattgtttgtcttctctccatctggtctact
46267334

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcatttt
1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 46267333 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcatttt
46267274

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggtttcta
1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 46267273 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggtttcta
46267214

Query: 1943 a 1943
 |

Sbjct: 46267213 a 46267213

Score = 341 bits (172), Expect = 1e-90
Identities = 172/172 (100%)
Strand = Plus / Plus

Query: 2286 ttcttttgttgaacttacattccatataactccgatttgcttctgcttaggcgaaagccat
2345

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Sbjct: 55400402 ttcttttgttgaacttacattccatataactccgatttgcttctgcttaggcgaaagccat
55400461

Query: 2346 gtgttttctagagctcgtctccaagtttccaacctctcattcaactcctccctcgactctc
2405

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Sbjct: 55400462 gtgttttctagagctcgtctccaagtttccaacctctcattcaactcctccctcgactctc
55400521

Query: 2406 caaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 55400522 caaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 55400573

Score = 278 bits (140), Expect = 2e-71
Identities = 149/152 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 8477002 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
8476943

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 8476942 tcaagtaccataacttctatccaaatcattaagttcgagatcctttttgataacctctctt
8476883

Query: 1763 atagtctttttgggtcttcctctgcctcgaat 1794

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Sbjct: 8476882 atagtctttttgggttttcctctgcctcgaat 8476851

Score = 210 bits (106), Expect = 3e-51
Identities = 220/254 (86%), Gaps = 3/254 (1%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTTatc
4816
|||||
Sbjct: 46159667 taactgttaatctttttattgatatcgtaagtaacagttaatgaactacaactcttcacc
46159726

Query: 4817 aatatcatagctttgtttagaaaaaagagatttaataattaatagctaaagaaatccaa
4876
|||||
Sbjct: 46159727 aatattataactttgtttagaaaaaat-agatttaatagttaatagctaaagaaatccaa
46159785

Query: 4877 aagtttttcttttatttttattttgttcctattcaattctaattttgtcat-ttttttca
4935
||
Sbjct: 46159786 aaaattttcttttatttttatttctctttctattcaattctaattttgtcttcttttctca
46159845

Query: 4936 ctgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgattattatttt
4995
||
Sbjct: 46159846 ctatctctcattcttctctgtctcctcacctgcttcttcagtttacttgattattgtttc
46159905

Query: 4996 actttgatacatta 5009
|||||
Sbjct: 46159906 actttgacacatta 46159919

Score = 202 bits (102), Expect = 7e-49
Identities = 192/222 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacataaatatacattaga
5176
|||||
Sbjct: 3892458 aaaattaattatcacaaaatgtattatttaaatttacatgcacattaaatatacattata
3892399

Query: 5177 aatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 3892398 aattttggtgtcatatatagtaacattatttattttataacataattgatctattagctt
3892339

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 3892338 agttgggttagaatattatgctaataacgcgaaagtcagaagtttaactcctgcttgggctc
3892279

Query: 5297 attaatTTTaaattaatttGTaaaatatattttgaaaaaaa 5338

|||||
Sbjct: 3892278 attaatTTTgaattaatttataaaacatatattttgaaaaaaa 3892237

Score = 188 bits (95), Expect = 1e-44
Identities = 201/235 (85%), Gaps = 1/235 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

|||||
Sbjct: 56234317 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattaga
56234376

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| |||||
Sbjct: 56234377 aagtttagtggttatgtataacaacattatttattttataatataattgggtctattagttt
56234436

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 56234437 agttgggttagaacgttgtgctaataacctaagtcacaggttaattcttgcttgga-c
56234495

Query: 5297 attaatTTTaaattaatttGTaaaatatattttgaaaaaaaaattataaaaaaa 5351

|||||
Sbjct: 56234496 attaatTTTaaattaattcataacacatatattttagaaaaaaaaattataaaaaaa
56234550

Score = 186 bits (94), Expect = 4e-44
Identities = 190/222 (85%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattag
5175

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Query: 5297      attaatttttaaatatttgtaaaatatattttgaaaaaaa 5338
                |||
Sbjct: 48625973  attaatttttaaatatttgtaaacatatattttgaaaaaaa 48625932
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Query: 5176      aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235            |||
Sbjct: 26222928 aaatTTtagtattatatatagcgacattaattatTT-ataacataattggTctattagat
26222986
```

Query: 6975 tcacagtcacactacctttcatctagcttgaccatgaaatttctcactagttgaatctct
7034
|||||

Sbjct: 16712804 tcacagtcacatcatctttcatcgagcctgattgtgaaatttctagtgagccaaacctct
 16712863

Query: 7035 ctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaa
 7094

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 Sbjct: 16712864 ctct--ggtttattgtgtcctggactaagaactgtgtgtcacatcgatcaaacttaagaa
 16712921

Query: 7095 caatgtgagagtttgccttttctgtatgtctttcatagccttgtttaataacttttgtat
 7154

|||||| | |||| || | || | ||| || | |||| || |||| ||||
 Sbjct: 16712922 caatgtgaacatttgcctttctcgggtgcatcttcgatgacattgtttagtacttgcgat
 16712981

Query: 7155 aaacttcaccaaataatgaatacactcttgcgacttctctccccctttgggtgaacaatgcat
 7214

|||| | | || | || | || |||| |||| |||| |||| |||| |||| ||||
 Sbjct: 16712982 aaacttggctagatgcaagcattgttgcgacttctctccctcttttgggtgaacaatgcat
 16713041

Query: 7215 tacacctagtatataggttgattttac 7239

|||| | ||| |||| |||| ||||
 Sbjct: 16713042 tacaccttagatatgttgattttac 16713066

Score = 172 bits (87), Expect = 7e-40
 Identities = 189/223 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgtttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

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 Sbjct: 56671543 aaaattaattatcacaaaatttattatctaaatttacctgtgcattaaatatacattaga
 56671484

Query: 5177 aatttttagtgattatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||| |||| | || | || | || |||| |||| |||| |||| |||| |||| ||||
 Sbjct: 56671483 aatttttagtattacatatagcgacattaattattttataacataattgatttattaattc
 56671424

Query: 5237 agttggtttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296

|||| |||| | |||| |||| |||| |||| | ||| || | | |||
 Sbjct: 56671423 agttgattagagtgtggtgttaataatgcgaaagtcacatatctcgatttctgcacggaca
 56671364

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaa 5339
 ||||| ||||||||| ||||| ||||||| |||||||
 Sbjct: 56671363 attaatcttaattaattcgtaaaacatatatttttaaaaaaaa 56671321

Score = 170 bits (86), Expect = 3e-39
 Identities = 189/222 (85%), Gaps = 1/222 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||||| ||||||||| ||||||| ||||||| ||||||||| |||||||||
 Sbjct: 17506167 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattaga
 17506108

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
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 Sbjct: 17506107 aatttttagtggttatatatag-aacattatttatcttataacgtaattaatctattagctt
 17506049

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||| ||||||||| ||||||| ||||||||| ||||||| ||| || ||||
 Sbjct: 17506048 agtttgtagagcattgcattaataacttgaaagtcataagttccatttttgttgggct
 17505989

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaa 5338
 ||||||||| |||| | ||||||||| |||||||
 Sbjct: 17505988 attaatttttaaattaattcgtaacacatatatttttaaaaaaa 17505947

Score = 159 bits (80), Expect = 1e-35
 Identities = 83/84 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 1702
 ||||||||| ||||||||| ||||||||| ||||||||| ||||||||| |||||||||
 Sbjct: 49817175 aacgccttatcccactaggtggggctgactacatggatcaacttccgccataatgttcta
 49817116

Query: 1703 tcaagtaccataacttctatccaaa 1726
 ||||||||| |||||||||
 Sbjct: 49817115 tcaagtaccataacttctatccaaa 49817092

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733
 ||||| |||||

Sbjct: 46064597 tcaagtaacatacttctatctaaatcattaa 46064627

Score = 157 bits (79), Expect = 4e-35
Identities = 266/326 (81%), Gaps = 3/326 (0%)
Strand = Plus / Minus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattaca-atc
7489

|||||
Sbjct: 54134135 atacaacaatgagcaacacacatgaagactataaatcatgaaataatatacatagtgatc
54134076

Query: 7490 aaataatttgggggagggggtcttcaaaacttgattcaagggttcattgtatcatcgaggta
7549

|||||
Sbjct: 54134075 aaataatttgggggatttttcttcaaaactcgattcaagggttcattgcttcatcaaggta
54134016

Query: 7550 ttcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtggtgtgcatatgt
7609

|| |
Sbjct: 54134015 ttgatccaaaccatcga--ttccaagagcttacagaaattgatgggtgggtgtgcaaagt
54133958

Query: 7610 ttatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagttt
7669

|||||
Sbjct: 54133957 ttatgtgggtgtatcctcagtggtaacatataactcattgtatgtgaggtgtggagttt
54133898

Query: 7670 cccaaatatagaaaacatagtaattatttctcatcatcttgagcagcatatgccttgta
7729

|| ||||
Sbjct: 54133897 cctgaatacaaaaaacataattattatgttcttaacatcttgagcatatgccttata
54133838

Query: 7730 ctgaaaacaatcaccaacaatgata 7755

|||||
Sbjct: 54133837 ttgaaaacaatcatcaacaatgata 54133812

Score = 155 bits (78), Expect = 2e-34
Identities = 105/114 (92%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 2382759 aacgccttatcccactaggtggagtcggctacatagaacaacttccgtcatgatgttcta
2382818

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacc 1756

|||||
Sbjct: 2382819 tcaagtaccataacttctatccaaactcattaagttcgagatcatttttgataacc 2382872

Score = 149 bits (75), Expect = 1e-32
Identities = 117/131 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 51232437 aaaattaattgtcataaaaatttattatgtaaatttacatgtacattaaatatacattaga
51232496

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 51232497 aattttaatggttatatatagtgatattaactattttataatataattgatttattagttc
51232556

Query: 5237 agttgggttaga 5247

|||
Sbjct: 51232557 aattaggttaga 51232567

Score = 145 bits (73), Expect = 1e-31
Identities = 118/133 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 16347348 aaaattaattgtcacaaaatttattcatgtaaatttacatgtgcattaaatatacattaga
16347407

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 16347408 aatttttagtggttatatatagcgacattaattattttataacataattgtcctattacctc
16347467

Query: 5237 agttggtagagc 5249
|||||||
Sbjct: 16347468 agttggtagagc 16347480

Score = 145 bits (73), Expect = 1e-31
Identities = 118/133 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaataacattaga
5176
|||||||
Sbjct: 18435401 aaaattaattgtgttacaaaatttattatgttaaacttatatgcataaataacattaga
18435460

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||||
Sbjct: 18435461 aatttttaattgttatatatagcgacgttaattattttttaacataattgatttattaactc
18435520

Query: 5237 agttggtagagc 5249
|||||
Sbjct: 18435521 agttgattagagc 18435533

Score = 137 bits (69), Expect = 4e-29
Identities = 117/133 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaataacattaga
5176
|||||||
Sbjct: 3170031 aaaattaattatcacaaaatttattatgttaaatttatatgtgcattaaataacattaga
3169972

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||||
Sbjct: 3169971 aatttttagtggttatataacgatattaattattttataacataattgggtctattagttc
3169912

Query: 5237 agttggtagagc 5249
| |||
Sbjct: 3169911 atttgcttagagc 3169899

Score = 137 bits (69), Expect = 4e-29
 Identities = 129/149 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||||||||| | |||||||||| | |||||| | || | || |||||||||| ||
 Sbjct: 4686122 aaaattaattgtcacaaaatttattttgttaaattacatgtacattaaatatacattaaa
 4686181

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||| | |||||| | | |||||||||||||| || |||| | |||| |
 Sbjct: 4686182 ttttttattggttatatataacgaaattaattattttataatataattgacctattagctc
 4686241

Query: 5237 agttggtagagcattatgttaataatgt 5265
 |||| | |||||| | | |||||||||| ||
 Sbjct: 4686242 agtttagtagagcgatcatgttaataatgt 4686270

Score = 137 bits (69), Expect = 4e-29
 Identities = 114/129 (88%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||||||||||| |||||||||| |||| | | | || |||||||||| ||
 Sbjct: 6919946 aaaattaattggttacaaaatttattatgttaaacttatatatgtattaaatatacattaga
 6920005

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||||||||||| | || | |||||||||| || |||| | |||| |
 Sbjct: 6920006 aatttttagtggttatatagcgatattaattattttataatataattgacttattagttc
 6920065

Query: 5237 agttggtta 5245
 ||||||
 Sbjct: 6920066 agttggtta 6920074

Score = 137 bits (69), Expect = 4e-29

Query: 6516 acaagttgacttgaactaaaatattttaattacaaaatagatatg----aaattacaaac
 6571
 |||||
 Sbjct: 16712316 acaagttgaattgaactaaaatattttaatttcaatatatatataaaattaccaac
 16712375

Query: 6572 aatagaacaaaatattttaatttgaaataatacaacaaaaattttaaaatacaaacaata
 6631
 |||||
 Sbjct: 16712376 aatagaataaaaatattttaatttgaaacaatacaataaaaattttaaaataaaatgaata
 16712435

Query: 6632 tggcataaaaattaatggttggtggcctgagcctacac 6667
 || |||||
 Sbjct: 16712436 tgacataaatttaacggttggtggccttaagcctacac 16712471

Score = 133 bits (67), Expect = 6e-28
 Identities = 117/133 (87%), Gaps = 3/133 (2%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 19886224 aaaattaattttcacaaaatttattatttaaatattacatgcggaataaatatacattaga
 19886165

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 19886164 aatttttggttatatatata---acattattttattttataatataattgatgtattagctc
 19886108

Query: 5237 agttgggttagagc 5249
 |||||
 Sbjct: 19886107 agttgggttagagc 19886095

Score = 133 bits (67), Expect = 6e-28
 Identities = 133/155 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 23821379 aaaattaattgtcaccaaatttattatttaaatattacatgcgcattaaatatacatataa
 23821438

[illegible]

```
Query: 4987      tattatttta 4996
           |||| ||||
Sbjct: 53192335 tattgtttta 53192326
```

Score = 129 bits (65), Expect = 9e-27
 Identities = 110/125 (88%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| | ||||| ||||| ||||| || ||||| ||||| |||||
 Sbjct: 48212839 aaaattaattatcacaaaatttattatttaaatttacatgcgcattaaatatacattaga
 48212898

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| ||||| ||||| || ||||| ||||| ||||| ||||| |||||
 Sbjct: 48212899 aatttttagtattatatatagtcacattatttactttataacataattgggttcattagttc
 48212958

Query: 5237 agttg 5241
 |||||
 Sbjct: 48212959 agttg 48212963

Score = 129 bits (65), Expect = 9e-27
 Identities = 259/322 (80%), Gaps = 5/322 (1%)
 Strand = Plus / Plus

Query: 6682 gacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgtatac
 6741
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 49275053 gacacatgaaacatcgctttgggttgacctgggttctcgaatattcatttcagtgtggatac
 49275112

Query: 6742 gagaggagacatgacaaccttagaatttcttttcatttttgggttggggcaaattcttg
 6801
 ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 49275113 gagaggagacaagatgacccttagaattt--tttcttgctctgggtcagggcagaacattg
 49275170

Query: 6802 gcttgtgacatggtgaccaacatgcttcattgcacaatttccaagtaatcatttgata
 6861
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 49275171 gcttgtgacatggtggccaatacgcttgggtgcgcaatttctcaaacaatcctctgtata
 49275230

Query: 6862 tgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgggtgag
 6921
 ||| ||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235

|||||
Sbjct: 6051801 aaatTTtagtgTtatataaacgacattaatcattTTTataacataattgggtctattagtt
6051860

Query: 5236 cagttggT 5243

|| |||||
Sbjct: 6051861 catttggT 6051868

Score = 127 bits (64), Expect = 3e-26
Identities = 208/254 (81%), Gaps = 19/254 (7%)
Strand = Plus / Minus

Query: 4764 ttaatcTTTTtattgataccgtaa-taataattaataagtaataatTTTTtatcaatatc
4822

||||| || |||||
Sbjct: 15327427 ttaatTTtgTtattgataccgtaagtaataattgatgagcaataactcttccccaatatc
15327368

Query: 4823 atagcTTtgTttagaaaaaaagagatttaataattaatagctaaagaaatccaaaagttt
4882

|||| |||||
Sbjct: 15327367 atagTTTtgTtt-gaaaaaaagagatttaatagttaatagttaaagaaacctaataaaat
15327309

Query: 4883 ttctTTttatt-----tttattTTtgTtcctattcattcTaattTTtgTcat-ttttt
4932

|||||
Sbjct: 15327308 ttctTTttatttctatttctTTttattatcttccctattcattcTaattTTtgTcttctTTttc
15327249

Query: 4933 tcactgtctctcgtacttc-----tctgtcttctcacctgtttcttcagtttacttga
4985

|||||
Sbjct: 15327248 tcactgtctctcatacttctTTtgTctTTtgTcttctcacctgttttttcagtttacttga
15327189

Query: 4986 ttattattTTtactt 4999

||||| || |||||
Sbjct: 15327188 ttattgTTtcactt 15327175

Score = 127 bits (64), Expect = 3e-26
Identities = 97/108 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 17316415 aaaattaattgtcacaaaatttattatctaaatttacatatgcattaaatatattaga
17316474

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224

|||||
Sbjct: 17316475 aattttattggttatatatagcgatattaattattttataacataattg 17316522

Score = 123 bits (62), Expect = 5e-25
Identities = 114/130 (87%), Gaps = 1/130 (0%)
Strand = Plus / Plus

Query: 1212 ccttttggctaagatcaagtgtagtatctgttcttatcagtttaatatctgatatgtggg
1271

|||||
Sbjct: 9627275 ccttttggctaagatcaagtgtagtatctgttcttgccagtttaatatctgatatgtggg
9627334

Query: 1272 tcattggcccatgatattaaatttattttttgaaggggtggggcctgacatagtagctt
1331

|||||
Sbjct: 9627335 ccattgggttcacatgatattaaaattacttttt-aagggtagtgtccaacacagtagctt
9627393

Query: 1332 gctactgggg 1341

||||
Sbjct: 9627394 gctattgggg 9627403

Score = 123 bits (62), Expect = 5e-25
Identities = 217/266 (81%), Gaps = 12/266 (4%)
Strand = Plus / Plus

Query: 4762 tgttaatctttttattgataccgtaa-taataattaataagtaataattttttatcaata
4820

|||||
Sbjct: 45828709 tgttaatttttttattggtaccgtaagtaacaattaatgagcaacgactcttcatcaatg
45828768

Query: 4821 tcatagctttggttagaaaaaaagagatttaataattaatagctaaagaaatccaaaagt
4880

|||||

Sbjct: 45828769 tcatagttttattttagaaaaaa-gaaatataataattcatagctaaaaaaactcaaaaaa
 45828827

Query: 4881 ttttcttttattttt-----attttgttcctattcaattctaattttgtcattttt
 4931

|||||
 Sbjct: 45828828 atttcttttatttttattctctttattatcttcctattcaattctaattctgtcttcttt
 45828887

Query: 4932 t-tcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgattatt
 4990

|||||
 Sbjct: 45828888 tctcattgtctctcatatttttctgtcttctcacgtgtttctttagtttacttgattatt
 45828947

Query: 4991 attttactttgatacattagccaata 5016

|||
 Sbjct: 45828948 gtttcacttttacacattagccaata 45828973

Score = 123 bits (62), Expect = 5e-25

Identities = 176/214 (82%)

Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 52340821 aaaattaattggttataaaaatttattatgtaaacttatatgtgtattaaatatatattaga
 52340762

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 52340761 aatttttagtgatataatagcgacattaattattttttgatataattgacttattaattc
 52340702

Query: 5237 agttgggttagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296

|||||
 Sbjct: 52340701 agttgggttagaacggttgaactaataacgcgaaaatcacaagtttgagacttagatggatc
 52340642

Query: 5297 attaatTTTaaattaatTTgtaaaatatattttt 5330

|||||
 Sbjct: 52340641 attaatTTTaaattagTctgtaaaatatattttt 52340608

Score = 121 bits (61), Expect = 2e-24
Identities = 115/133 (86%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
||||||| | |||||||||||| |||||| | || ||||||||| |||
Sbjct: 3168995 aaaaattaatcatcacaaaatttattatgtaaatttacatgtatattaaatatacactag
3168936

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
| |||||||||||| || |||||||||||||||||| |||| | |||| |
Sbjct: 3168935 atattttagtggttatatatatcaaaattaattattttataacattattgatctattagct
3168876

Query: 5236 cagttgggtagag 5248
|||||||
Sbjct: 3168875 tagttgggtagag 3168863

Score = 121 bits (61), Expect = 2e-24
Identities = 162/195 (83%), Gaps = 3/195 (1%)
Strand = Plus / Minus

Query: 5120 attaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaat
5179
||||||| |||||||||||| |||||| | |||| | |||||||||||| ||||
Sbjct: 10903793 attaattgtcacaaaatttatt---taaatttacatgcgtattaaatatacattaaaaat
10903737

Query: 5180 ttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcagt
5239
|||| | ||||| ||| | || | ||||||| ||||||| | |||| | |||
Sbjct: 10903736 ttttagtcttatatatagcaacatgatttattttagaacataattaacctattaatttagt
10903677

Query: 5240 tgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcatt
5299
|||| | |||| | |||| | ||||||| | ||||||||| |||||||||
Sbjct: 10903676 tgggttaaaatgttatgctaataacctgaaagtcataagattcaattcttgcctggatcatt
10903617

Query: 5300 aattttaaattaatt 5314
|||||||
Sbjct: 10903616 aattttaaattaatt 10903602

Score = 121 bits (61), Expect = 2e-24
 Identities = 176/213 (82%), Gaps = 11/213 (5%)
 Strand = Plus / Minus

Query: 4817 aatatcatagctttgtagaaaaaagagatttaataattaatagctaaagaaatccaa
 4876
 ||||| |||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 23720132 aatattatagttgtgtagaaaaaa---atttaataattaataattaagaaactcaa
 23720076

Query: 4877 aagtttttcttttattt-----ttattttgttcctattcaattctaattttgtcattt
 4929
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 23720075 aagtttttcttttatttcttttctttattgtcttcctattaaattctaattttgtcttct
 23720016

Query: 4930 ttt-tcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgatta
 4988
 ||| ||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 23720015 tttatcattgcttctcgtatttctctgttttctcaccaacttcttcattttacttgatta
 23719956

Query: 4989 ttattttactttgatacattagccaataatttt 5021
 || ||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 23719955 ttgtttcactttgatataattagtagtcaatagtttt 23719923

Score = 121 bits (61), Expect = 2e-24
 Identities = 115/133 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 54459594 aaaattaattgtcataaaaatttattatttaaatttacatgcgcattaaatatacattaaa
 54459535

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 54459534 aatttttagtggttatataataacattattttattttataataattgactaattagctc
 54459475

Query: 5237 agttggtagagc 5249
 | ||||| |||||

Sbjct: 54459474 aattggtttagagc 54459462

Score = 121 bits (61), Expect = 2e-24
Identities = 154/185 (83%)
Strand = Plus / Plus

Query: 5120 attaattgttacaaaatttattatctaaatttgcacataaataacattagaaat
5179

||||| ||| ||||||||||||||||||| ||| || ||||||| ||| |||
Sbjct: 57808447 attaattattataaaatttattatctaaattacatatgcattaaatatattaaaaat
57808506

Query: 5180 tttagtggttatatttagtgaaattaattatttataacataattgatgtattagttcagt
5239

|||| |||||| || || ||||||||||||||||||||||| ||||| |||
Sbjct: 57808507 tttaatgttataaataacgacattaattatttataacataattgacttattagattagt
57808566

Query: 5240 tggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcatt
5299

|||||||| ||| | ||||| | |||| | |||||||||||||| ||| | |||
Sbjct: 57808567 tggttagagtattgtactaataacgcaaaagttagaagttcaattcttgcctgaaccatt
57808626

Query: 5300 aattt 5304

||||
Sbjct: 57808627 aattt 57808631

Score = 119 bits (60), Expect = 9e-24
Identities = 109/124 (87%), Gaps = 1/124 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176

||||||||||||||||||||||||||||| ||| || ||| | ||||||||||||||
Sbjct: 18858928 aaaattaattgttacaaaatttattatgtaaacttatatgtgtattaaataacattaga
18858987

Query: 5177 aatttttagtggttatatttagtgaaattaattatttataacataattgatgtattagttc
5236

| |||||||||||||| ||||| |||||||||||||| |||||| | ||||| |||
Sbjct: 18858988 a-ttttagtggttatatatagtgacattaattatttatagcataattgggtctattagctc
18859046

Query: 5237 agtt 5240
||||
Sbjct: 18859047 agtt 18859050

Score = 119 bits (60), Expect = 9e-24
Identities = 108/124 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||||| | ||||||||| ||||| ||| || |||||||||
Sbjct: 56116072 aaaattaatcatcacaaaatttattacgtaaatttacatgtgcattaaatatacattaga
56116131

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||| ||| ||| || ||||||||| ||||||||| |||||
Sbjct: 56116132 aatttttagtgatataatagcgacattaattattttataacataattgacctattagttt
56116191

Query: 5237 agtt 5240
||||
Sbjct: 56116192 agtt 56116195

Score = 117 bits (59), Expect = 3e-23
Identities = 126/147 (85%), Gaps = 1/147 (0%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177
||||||| ||||||||| ||||| ||| || ||| ||| ||| ||
Sbjct: 3170267 aaattaattgtcacaaaatttattatgtaaatttacatgtgcattaattatatatataaaa
3170326

Query: 5178 at-ttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|| ||||| ||||| ||| || ||||||||| ||||||| ||||| |
Sbjct: 3170327 atatttagtattatatatagcgacattaattattttataatataattgacttattagctt
3170386

Query: 5237 agttggttagagcattatgttaataat 5263
||||||| || |||||||
Sbjct: 3170387 agttggttagagcgttgtgttaataat 3170413

Score = 117 bits (59), Expect = 3e-23
Identities = 136/161 (84%), Gaps = 3/161 (1%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaataacattag
5175
|||||
Sbjct: 4218304 aaaaattaattatcacaaatttattatgttaaattacatgtgcattaaataacattag
4218245

Query: 5176 aaatddd---agtgttatatttagtgaaattaattatdddtaacataattgatgtatta
5232
|||||
Sbjct: 4218244 aaatdddtttagtattatatatagcgacattaattatdddtaacataattgtttatta
4218185

Query: 5233 gttcagttggttagagcattatgttaataatgtgaaagtca 5273
|
Sbjct: 4218184 gcatagttggttagagcgctcgtgttaataacgtgaaagtca 4218144

Score = 117 bits (59), Expect = 3e-23
Identities = 74/79 (93%)
Strand = Plus / Minus

Query: 5014 ataatdddtaataaattatdddtagaataaataaaaggtdttattdcttaatttgcttgag
5073
|||||
Sbjct: 19465488 ataatdddtaataaattatdddtagtaataaagggtctcattcttaatttgctttag
19465429

Query: 5074 ccctctcaagtccttgagc 5092
|||||
Sbjct: 19465428 acctctcaagtccttgagc 19465410

Score = 117 bits (59), Expect = 3e-23
Identities = 137/163 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
|||||
Sbjct: 61064645 aaaattaattgttacaaaatttattatctaaacttatatgtatattaaataaattaga
61064704

|||||

Score = 115 bits (58), Expect = 1e-22
Identities = 112/130 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 29721835 aaaattaattgtcacaaaatttattatgtaaatttatatgtaaattaaatatattaga
 29721776

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 29721775 aatttttagtggttatatataacaatattaattattttataacataattgacatattagctt
 29721716

Query: 5237 agttgggttag 5246
 | |||||
 Sbjct: 29721715 atttgggttag 29721706

Score = 113 bits (57), Expect = 5e-22
 Identities = 99/113 (87%)
 Strand = Plus / Plus

Query: 5136 tttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggttatattta
 5195
 |||||
 Sbjct: 1567871 tttattatgtaaatttacatgtgcattaaatatacattagaaattttattggttatatata
 1567930

Query: 5196 gtgaaattaattattttataacataattgatgtattagttcagttgggttagag 5248
 || |||||
 Sbjct: 1567931 acgatattaattattttataacataattgacctattagtttaattgggttagag 1567983

Score = 113 bits (57), Expect = 5e-22
 Identities = 90/101 (89%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 |||||
 Sbjct: 1897066 taaatatacattagaaatttttagttttatataatgacattaattattttataataa
 1897125

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataa 5262
 |||||
 Sbjct: 1897126 ttgatttattagcttaattgggttagagcgttgtgttaataa 1897166

Score = 111 bits (56), Expect = 2e-21
Identities = 193/236 (81%), Gaps = 2/236 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||| || |||||||||||| |||||| |||||| |||||| ||
Sbjct: 4050076 aaaattatttattacaaaatttattatttaaatttacatgcacgttaaatacattaaa
4050135

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

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Sbjct: 4050136 aattctaattgtatatatagcaacattatttattttataatgtaattgggttcattagctt
4050195

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaag-ttcaattcttacttggtat
5295

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Sbjct: 4050196 aattgattagaatattgtgttaataacctgaaagtcacatgtttgattttttgcttggtac
4050255

Query: 5296 catataattttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351

|||||||||||||||| || | |||||| |||||||||| |||||||
Sbjct: 4050256 tattaattttaaattaatttcgtcataaatatttttcaaaaaaaaaatt-taaaaaaa
4050310

Score = 111 bits (56), Expect = 2e-21
Identities = 134/158 (84%), Gaps = 4/158 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

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Sbjct: 8827778 aaaattaattgtcacaaaatctattatttaaatttacatgcgtattaaataacaataga
8827837

Query: 5177 aattttt-agtgttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

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Sbjct: 8827838 aatttttaattgttatatata---acattatttattttataacataattgaattattagtt
8827894

Query: 5236 cagttggtagagcattatgttaataatgtgaaagtca 5273

||||| ||| ||| || |||||| ||||||||
Sbjct: 8827895 cagttgattaaagcgttctgttaataagctgaaagtca 8827932

```
Query: 6628      aatatggcataaaaattaatgttggtggcctgagcctacac 6667
               |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Sbjct: 15045498 aatataacataaaatttaagtgttggttggttgagcctacac 15045459
```

```
Query: 5237      agttggttagag 5248
              |||||
Sbjct: 17334446 agttgqttagag 17334435
```

```
Query: 5117      aaaattaattgttacaaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176            |||||
Sbjct: 21185834 aaaattaattgtcacaaaaatttattatgttaaatttacattgtgcattaaatatacattaga
21185893
```

Query: 5177 aatTTTtagtgTtat---atttagtgaaattaattatTTTataacataatt 5223
 ||||| || || || ||||| |||||
Sbjct: 21185894 aatTTTtagtgTtattatatataacgacattaattatTTTataacataatt 21185943

Score = 109 bits (55), Expect = 8e-21
Identities = 79/87 (90%)
Strand = Plus / Plus

Query: 4310 aaacatcTTTgCgCtTgGgacaataacgcagctagtgaggTtctaaccgaggTgtgtcta
4369
 ||||| ||||| |||| | ||||| |||||
Sbjct: 14796634 aaacatcTTTgtgCtTgGggcaatgacgcagctagtgaggTtctaaccgaggTgcatcta
14796693

Query: 4370 ttgctggttgaaaactatTTTcaaacc 4396
 ||| ||||| ||||| |||||
Sbjct: 14796694 ttgatggttgaaatctatTTTcaaacc 14796720

Score = 109 bits (55), Expect = 8e-21
Identities = 140/167 (83%), Gaps = 1/167 (0%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgTtacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
 ||||| ||||| |||| | |||| | ||||| |||||
Sbjct: 53959911 aaaaattaattgTtatataaaatttattatgtaaaattatatgtatattaaatatacattat
53959970

Query: 5176 aaatTTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235
 ||||| ||||| || || ||||| ||||| ||||| |
Sbjct: 53959971 aaatTTTtagtattatatataacgacattaatta-tttataatataattgacctattaact
53960029

Query: 5236 cagttggttagagcattatgttaataatgtgaaagtcaaaagttcaa 5282
 ||||| ||||| || ||||| ||||| ||| | |||||
Sbjct: 53960030 cagttagttagagtatcatgttaataacgtgaaaatcacaggttcaa 53960076

Score = 107 bits (54), Expect = 3e-20
Identities = 123/146 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

||||| | | ||||| ||||| ||||| ||||| | ||||| ||||| |
 Sbjct: 1567849 aaaattaattatcaaaaaatttattatataaaatttacatgtgtattaaatataaattata
 1567790

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

| ||||| ||||| || | ||||| ||||| ||||| ||||| ||||| ||||| |
 Sbjct: 1567789 agtttagtggttatatatagcgatattaattattttataacataattgacctattagctt
 1567730

Query: 5237 agttggtagagcattatgttaataa 5262

| ||||| ||||| || | |||||
 Sbjct: 1567729 aattggtagagcggttgctgtaataa 1567704

Score = 107 bits (54), Expect = 3e-20
 Identities = 185/226 (81%), Gaps = 2/226 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

||||| | | ||||| ||||| ||||| ||||| | ||||| ||||| |
 Sbjct: 51431954 aaaattaattttcataaaaatttattatttaaatttacatgcataatataatataaa
 51432013

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||| ||||| || | | ||||| ||||| ||||| | || |||||
 Sbjct: 51432014 aattttagtattatatataataatattttattttataatataattaacctactagctc
 51432073

Query: 5237 agttgggtt-agagcattatgttaataa-tgtgaaagtcaaaagttcaattcttacttgga
 5294

|||| ||| |||| | ||| ||||| | ||||| || | || | |||||
 Sbjct: 51432074 agttagttcagagcgctcatgctaataattatgaaagtcataagatttgagtactgcttgaa
 51432133

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340

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 Sbjct: 51432134 tcattaatttttaaattaatttcataaaaatatatttttgaaaagaaaa 51432179

Score = 107 bits (54), Expect = 3e-20
 Identities = 75/82 (91%)
 Strand = Plus / Minus

Query: 5014 ataattttaataaattatTTTTatgaataaataaaaagggttttattcttaaatttgcttgag
5073

|||||
Sbjct: 54497946 ataattttaataaaactatTTTTatgagtaaataaaaagggtctcattcttaaatttgctttag
54497887

Query: 5074 ccctctcaagtccttgagccgc 5095

|||||
Sbjct: 54497886 gcctctcaaataccttgagccgc 54497865

Score = 105 bits (53), Expect = 1e-19
Identities = 107/125 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 1328208 aaaattaattgtcaaaaaatttattatctaaatttacctgacattaaatatacattaga
1328149

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
5236

|||||
Sbjct: 1328148 aattttattattatatataacgacattaattatcttataatataattattctattagctc
1328089

Query: 5237 agttg 5241

|||||
Sbjct: 1328088 agttg 1328084

Score = 105 bits (53), Expect = 1e-19
Identities = 95/109 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 1896897 aaaattaattttttacaaaatttggttatgtaaatttacctgacattaaatatacattaaa
1896838

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattga 5225

| |||||
Sbjct: 1896837 atttttaatggttatatatattgacattaattatTTTataatataattga 1896789

Score = 105 bits (53), Expect = 1e-19
 Identities = 396/507 (78%), Gaps = 5/507 (0%)
 Strand = Plus / Minus

Query: 6718 ggatatccattttggtgtgtatacgagaggagacatgacaacctttagaatttcttttca
 6777

Sbjct: 15045388 ||||| ||||| | ||| ||| ||||| ||| | ||| ||| ||||| ||||| |||||
 15045329 ggatatccatttcagagtggatatgagagaagataggacgacccttagaatttcttttct

Query: 6778 tttttggggttggggcaaattcttggccttgtagacatggtgaccaacatgcttcattgcaca
 6837

Sbjct: 15045328 | | ||||| || | |||| | ||||| |||| | ||| |||| | |||| | ||| ||
 15045269 tgtctggggttggcgtaaattcattggccttgagacacagtgcccaatatgctttggtgtgca

Query: 6838 atttcccaagtaatcatttgtacatgttatagatacttttcagcgtatacacaagatgta
 6897

Sbjct: 15045268 || |||| | ||||| |||| | || | ||||| || | ||||| |||| ||
 15045209 atcctccaaacaatcatttgtataccttggagatactttccaatgtatacacaggatata

Query: 6898 tgtagttcctataactcatggtgagcatgcttataaaca---acaacatgagaacaaaaca
 6954

Sbjct: 15045208 ||||| || | ||||| |||| | |||| | || | ||||| ||||| ||||
 15045149 tgtagttcatgtactcatgatgagtggttacaagcaccaacaacatgagaacaagaca

Query: 6955 tgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaat
 7014

Sbjct: 15045148 || || | |||| | ||||| |||| ||| || | ||||| | | |||| | ||||
 15045089 tgcacaatctttggaatttgtcatagttacatcacttttcatccaacctgactgtgaaat

Query: 7015 ttctcactagttgaatctctctctccagttaattgtctcctagactaagaattgtatgtc
 7074

Sbjct: 15045088 |||| | | | | ||| ||||| |||| ||| |||| | ||| |||| | || ||||
 15045031 ttct-agtggattgatc-ctctctcaagtttattatctcatggaccaagaacagtgtgtc

Query: 7075 gcattaatcgaactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagc
 7134

Sbjct: 15045030 ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||| ||
 15044971 acatcgatcgaactcaagaacaatgtgagcgtttgcctttctctgtgcgtcttcgatgac

Query: 7135 cttgtttaatacttttgtataaaacttcaccaaagtgaatcactcttgcgacttctctccc
7194
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15044970 cttgttttagtacttgcatataaaacttggccaaagtgaaccattgttgtgacttttctccc
15044911

Query: 7195 cctttgggttgaacaatgcattacacct 7221
|||| ||||| |||||
Sbjct: 15044910 tcttttattgaacaatgtgttacacct 15044884

Score = 105 bits (53), Expect = 1e-19
Identities = 93/105 (88%), Gaps = 1/105 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18858834 aaaattaattgttacgaaatttattatataaaatttatatgtgcattaaatatattaga
18858775

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataa 5221
||||| ||||| || ||||| ||||| ||||| |||||
Sbjct: 18858774 aatttttagtattatatata-tgacattaattattttataacataa 18858731

Score = 105 bits (53), Expect = 1e-19
Identities = 140/169 (82%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 22271936 taaatataatattacaaacttttagtggttatatatagcgatattaattattttaaaatataa
22271877

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataatgtgaaagtcaaaagttca
5281
| ||| ||||| ||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 22271876 tagatttattagctcaatggggttagagattgtgctaataatttgaaagtcataagtttg
22271817

Query: 5282 attcttacttggatcattaatttttaaattaatttgtaaaatatattttt 5330
| | | | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 22271816 agttctgcatggaccattaatttttaaattaattcgtgaaacatatatttt 22271768

Score = 105 bits (53), Expect = 1e-19
Identities = 95/109 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||||||||||||||||| ||||||| ||||||||| || ||||||| |||||||
Sbjct: 53272352 aaaattaattggtacaaaatttattatttaaatttacatgcacattagatatattaga
53272293

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 || || ||||||||| | || | | ||||| ||||||||||||| |||||||||
Sbjct: 53272292 aagttcagtggttatgtataataacattattttattttataaatataattga 53272244

Score = 105 bits (53), Expect = 1e-19
Identities = 110/129 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| | ||||||||||||||||| ||||||| ||||||||| |||||||||||||||||
Sbjct: 57808302 aaaattaattatcacaaaatttattatttaaatttacatgcacattaaatatacattaga
57808243

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||||| || | | ||||||||||||||||||||| || | ||| | ||
Sbjct: 57808242 aatttttagtggttacataacaacatgttaattattttataacataagtgggtctatgaactc
57808183

Query: 5237 agttgggtta 5245
 |||||||||
Sbjct: 57808182 agttgggtta 57808174

Score = 103 bits (52), Expect = 5e-19
Identities = 140/168 (83%), Gaps = 1/168 (0%)
Strand = Plus / Plus

Query: 7445 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttg-ggga
7503
 ||||| ||||| |||| ||||||||||||||||| ||| ||||||||||||| || |||||

Query: 5177 aatttttagtggtatat 5192

|||||
Sbjct: 60855893 aatttttagtggttatat 60855908

Score = 103 bits (52), Expect = 5e-19
Identities = 124/148 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 62202808 aaaattaattgtttaaaaatttattatgtaaacttatatgtgtattaaatatattaga
62202867

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 62202868 aatttttagtggttatatgtatcaacattaattattttttaacataattgacttattagttc
62202927

Query: 5237 agttggtagagcattatggttaataatg 5264

|||||
Sbjct: 62202928 agttggtagtggttatgctaataatg 62202955

Score = 101 bits (51), Expect = 2e-18
Identities = 111/131 (84%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177

|||||
Sbjct: 14412151 aaattaattgtcacaaaatttattatgtaaatttacatttgtattaaatacatattagaa
14412092

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
5237

||||
Sbjct: 14412091 atttcagtggttagatagcgacattaattattttataacataattaatctattaactca
14412032

Query: 5238 gttggtagag 5248

|||||
Sbjct: 14412031 attggtagag 14412021

Query: 7499 ggggaggggggtcttcaaaacttgattcaagggttcattgtatcatcgaggtattcacccaa
7558 ||||| ||||||| ||||||| | ||||||| ||||
Sbjct: 48251736 ggggggggggggtcttcaaaacttgattcaagggttcattgcttggtcgcaggtattcatacaa
48251795

Query: 7559 accctccaaattcaaagagcttgcagaaactgggtgggtgtgcatatgtttatgtggg
 7618
 ||| || |||| |||| | ||||| ||||| ||| | ||||| |||||
 Sbjct: 48251796 accatcaaaattgaaagaccgggcagaaattgggtgggtgatgtgtacatgtttgtgtggg
 48251855

Query: 7619 tgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaaatat
 7678
 |||| | ||| || | || |||| |||| ||| || | | || |||| ||
 Sbjct: 48251856 caggtctatgggtggaatatataactccaggcacgtgagcttggaaatttctgcaaacat
 48251915

Query: 7679 agaaaacatagtaattatttctcatcatcttgcagcatacatgccctgtactgaaaaca
 7738
 ||||| |||| ||| || |||| ||| ||| || | ||||| |||
 Sbjct: 48251916 ggaaaacatagttattacgacctcattatcgtgcaacatgtatgtcgtgtacttgccaca
 48251975

Query: 7739 atcaccaacaaatgatac 7756
 ||||| ||||| ||||| |||||
 Sbjct: 48251976 atcaccaacaaatgatac 48251993

Score = 99.6 bits (50), Expect = 8e-18
 Identities = 122/146 (83%)
 Strand = Plus / Minus

Query: 5194 tagtgaaattaattattttataacataattgatgtattagttcagttgggttagagcatta
 5253
 ||||| ||||| ||||| ||||| ||||| ||| ||||| |||
 Sbjct: 58681227 tagtgacattaattattttataatataattgatctgttagtttaattgattagagtattg
 58681168

Query: 5254 tgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaattaat
 5313
 ||||| |||| ||| || | || ||||| |||| |||| ||||| |||||
 Sbjct: 58681167 tgttaataatacgaaaatctcaggtttaattcttgtttggaccattatttttaaattaat
 58681108

Query: 5314 ttgtaaaatatatttttgaaaaaaaa 5339
 | |||| ||||| ||||| |||||
 Sbjct: 58681107 tcataaattatattttttaaaaaaaaa 58681082

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 135/162 (83%), Gaps = 5/162 (3%)

Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

 ||||||||||| ||||||||||| ||||||| ||| || |||||||||||
Sbjct: 521225 aaaattaattgtaacaaaatttattatttaaatttagatgtgcattaaatatacattaga
521166

Query: 5177 aatttttagtgttatat-ttagtg----aaattaattattttataacataattgatgtatt
5231

 ||||||| ||||||| | ||| || | ||||| ||||||| ||||||||||| |||
Sbjct: 521165 aattttgggtgttatgtattaatgtataatattattttttgtaacataattgactcatt
521106

Query: 5232 agttcagttgggttagagcattatgttaataatgtgaaagtca 5273
 || ||||||||||||||| || ||||||||||| |||||||||
Sbjct: 521105 agctcagttgggttagagtgtgtgtaataacttgaaagtca 521064

Score = 97.6 bits (49), Expect = 3e-17
Identities = 70/77 (90%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175

 ||||| ||||| ||||||||||||||| ||||||| ||||||| ||||||| |||||
Sbjct: 5258367 aaaaaataattattacaaaatttattatataaaatttacatgcacattaaatataaattag
5258308

Query: 5176 aaatttttagtgttatat 5192
 ||||||| |||||||
Sbjct: 5258307 aaattttaatgttatat 5258291

Score = 97.6 bits (49), Expect = 3e-17
Identities = 64/69 (92%)
Strand = Plus / Minus

Query: 3723 ctcttgttttctgcttttttctgtaagtccttatttggtatcattaatgaaaattcaccaa
3782

 ||||||||||||||| ||| ||||||| ||||||||||||||| |||||||
Sbjct: 10773009 ctcttgttttctgcttcttttctgtaagttttatttggtatcattaatgaaaactcaccaa
10772950

Query: 3783 acaaatgca 3791
 | |||||||

Sbjct: 10772949 ataaatgca 10772941

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 134/160 (83%), Gaps = 3/160 (1%)
 Strand = Plus / Minus

Query: 7459 ctacaaatcattaaataatacaattacaatcaaataatttggggaggggggtcttcaaaac
 7518

Sbjct: 53694281 ctacaaatcattaaattatagaatagcaatcaaataaattaggg--gggggtcttcaaaac
 53694224

Query: 7519 ttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaagagc
 7578

Sbjct: 53694223 tcgattcaagggttcattgcttgaacgagggtatt-attcaaaccctcaaaattgaaagagt
 53694165

Query: 7579 ttgcagaaactgggtgggtgggtgtgcatatgtttatgtggg 7618

Sbjct: 53694164 tggtagaaattgggtgggtggatgtgtacatgtttgtgtggg 53694125

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 100/116 (86%), Gaps = 1/116 (0%)
 Strand = Plus / Minus

Query: 5133 aaatttattatctaaatttgcacataacataacattagaaatttttagtggttatat
 5192

Sbjct: 4686072 aaatttattatgtaaacttatatgtatattaaataacattagaaatttttagtggttatat
 4686013

Query: 5193 ttagtgaaattaattatatttataacataattgatgtattagttcagttgggttagag 5248

Sbjct: 4686012 ataacaacattaatcattttataacataattgat-tattaactcagttgggttagag
 4685958

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 78/88 (88%)
 Strand = Plus / Plus

Query: 6580 aaaatattttaaatttgaaataataacaacaaaaatttttaaatacaacaatatggcataa
6639
|||||
Sbjct: 16235653 aaaatattttaaatttgaaacaataacaacaaaaatttttaaataataaagaatatgacataa
16235712

Query: 6640 aattaatggttggttgacctgagcctacac 6667
| ||| ||||| || ||||| |||||
Sbjct: 16235713 atctaacggttggttagcttgagcatacac 16235740

Score = 95.7 bits (48), Expect = 1e-16
Identities = 84/96 (87%)
Strand = Plus / Plus

Query: 6580 aaaatattttaaatttgaaataataacaacaaaaatttttaaatacaacaatatggcataa
6639
|||||
Sbjct: 49274929 aaaatattttaaatttgaaacaataacaacaaaaatttttaaatacaagaatatgaaataa
49274988

Query: 6640 aattaatggttggttgacctgagcctacacaatggggg 6675
| |||| |||| | || ||||| |||||
Sbjct: 49274989 atttaacggttggttcgcttgagcctacacgatggggg 49275024

Score = 95.7 bits (48), Expect = 1e-16
Identities = 111/132 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 58169769 aaaattaattatcacaaaatttattatttaaattttcatgcgcattaaatatacatatga
58169710

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||| ||||| | ||| | |||| ||||| || ||||| | ||||| ||
Sbjct: 58169709 aattttaatggttatgtatagcaacattatttattttacaacgtaattgggttcattagctc
58169650

Query: 5237 agttgggttagag 5248
|||||
Sbjct: 58169649 agttgggttagag 58169638

Score = 95.7 bits (48), Expect = 1e-16
Identities = 79/88 (89%), Gaps = 1/88 (1%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTtatatTTtagtgaaattaattatTTtataacataa
5221
 ||||||||||||||||||||||| ||||||| || || |||||||||||||||||||||
Sbjct: 58629762 taaatatacattagaaatTTtaatgTTtatatatac-gacattaattatTTtataacataa
58629820

Query: 5222 ttgatgtattagttcagttggTTtagagc 5249
 |||| ||||||||||| ||| |||||||
Sbjct: 58629821 ttgacttattagttcaattgatttagagc 58629848

Score = 93.7 bits (47), Expect = 5e-16
Identities = 47/47 (100%)
Strand = Plus / Plus

Query: 5295 tcattaatTTTtaaattaattTgtaaaatatatTTTtgaaaaaaaaaat 5341
 ||||||||||||||||||||||| |||||||||||||||||||
Sbjct: 9241456 tcattaatTTTtaaattaattTgtaaaatatatTTTtgaaaaaaaaaat 9241502

Score = 93.7 bits (47), Expect = 5e-16
Identities = 89/103 (86%)
Strand = Plus / Plus

Query: 5145 taaattTgcatgcacaataaatatacattagaaatTTtagtgTTtatatTTtagtgaaatta
5204
 ||||||| ||| ||| ||||||||||||||||||||||| |||| | |||| | ||||
Sbjct: 53366233 taaattTcacatacgcatTaaatatacattagaaatTTtagtattatgtatagTaaatta
53366292

Query: 5205 attatTTTtataacataattgatgtattagttcagttggTTtaga 5247
 ||||||||||||| ||||||||| ||||| |||||||||||||
Sbjct: 53366293 tttatTTTtataaatataattgattcattagctcagttggTTtaga 53366335

Score = 93.7 bits (47), Expect = 5e-16
Identities = 77/87 (88%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgt
6737
|||||
Sbjct: 16235773 atgcgacacatgtaacattgctttggttgacctagttctcagatatccattttggtgtgg
16235832

Query: 6738 atacgagaggagacatgacaacctttagaattttcttttcatttttgggttggggcaaatt
6797
||||
Sbjct: 16235833 atacaagaggagacagaacgacccttaaaattttcttttcttgtctaggtcgaggtagatt
16235892

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857
|||||
Sbjct: 16235893 attggctcgtgttacactggccaatacgccttcattgcataatttctccaacaatcatatg
16235952

Query: 6858 tacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
6917
||
Sbjct: 16235953 tatactttggagatactttccaacttatacacatgatgtatgtagttcttgtactcatgg
16236012

Query: 6918 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
6974
|||||
Sbjct: 16236013 tgagcattcatataagcagcaacaacatgcgaacaatgcatgtgtaatttctagaatttg
16236072

Query: 6975 tcacagtcacactaccttttc 6994
|||||
Sbjct: 16236073 ccacagtcataccaccttttc 16236092

Score = 91.7 bits (46), Expect = 2e-15
Identities = 100/117 (85%), Gaps = 2/117 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 16987933 aaaattaattgtcgcaaaatttattatctaaatttacatgtgcattaaatataaaattaa
16987874

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattag
5233
|

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacataaatatacattaga
5176

||||||| | ||||||||||||||||||| || || ||||| |||||
Sbjct: 48626249 aaaattaattatcataaaatttattatctaaatttacatgtgcatgaaatatgcattaga
48626308

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||| | ||||||| | | ||||||||||||||||||| ||||| ||
Sbjct: 48626309 aatgttcttggttatataacgatattaattattttataacataattggcttattagctc
48626368

Query: 5237 agttggtta 5245

| |||||
Sbjct: 48626369 aattggtta 48626377

Score = 89.7 bits (45), Expect = 8e-15
Identities = 105/125 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacataaatatacattaga
5176

||||||| | ||||||||||||||||||| ||||| || ||||||||||||||| |
Sbjct: 53366219 aaaattaattatcacaaaatttattatttaaatttacatgcgcattaaatatacatataa
53366160

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||| | | | | ||||| ||||||||||||||| ||||| | ||||| ||
Sbjct: 53366159 aatttttagtggtttgtataacaatattattttattttataatataattgggttcattagctc
53366100

Query: 5237 agttg 5241

||||
Sbjct: 53366099 agttg 53366095

Score = 89.7 bits (45), Expect = 8e-15
Identities = 129/157 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacataaatatacattaga
5176

||||||| ||||| ||||| ||||| ||||| || || ||||| | |||
Sbjct: 54822016 aaaattaattgtcacaaaatatattatgtaaatttacatgtgcatcaaatatatgaaga
54822075

```
Query: 5177      aatttttagtgttatatatttagtgaaattaattatntt 5212
              ||||| ||||| || || ||||| |||||
Sbjct: 59975747 aattttattgttatatataatqacattaattatntt 59975782
```


Score = 85.7 bits (43), Expect = 1e-13
 Identities = 109/131 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||||||| ||||||| ||||| ||||||| || || || || ||||| |||||
 Sbjct: 3200933 aaaattaattgtcacaaaattgattatgtaaatttatatgtgcattatatatatattaga
 3200992

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 || |||| | ||||||| | | |||||||||||||||||||||||| ||||| ||
 Sbjct: 3200993 aaattttattggttatatatgacaacattaattattttataacataattgatctattaagtc
 3201052

Query: 5237 agttgggttaga 5247
 | |||||||||
 Sbjct: 3201053 aattgggttaga 3201063

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 64/71 (90%)
 Strand = Plus / Plus

Query: 5014 ataattttaataaaattattttatgaataaataaaaagggttttattcttaaatttgcttgag
 5073
 ||||||||||||||| |||||||||||||||||||| || |||||||||||||||| || ||
 Sbjct: 45836393 ataattttaataaaaatattttatgaataaataaaaatgtcttattcttaaatttattttag
 45836452

Query: 5074 ccctctcaagt 5084
 |||||||||
 Sbjct: 45836453 gcctctcaagt 45836463

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 59/63 (93%), Gaps = 1/63 (1%)
 Strand = Plus / Plus

Query: 4816 caatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatcca
 4875
 ||||||||| |||||||||||||||| ||||| |||| |||||||||||||||||

Sbjct: 57160686 caatatcataactttgttttagaaaaaa-gagattaaatagttaatagctaaagaaatcca
57160744

Query: 4876 aaa 4878
 |||
Sbjct: 57160745 aaa 57160747

Score = 83.8 bits (42), Expect = 5e-13
Identities = 66/74 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
 ||||| ||||| ||||| ||||| || ||||| ||||| |||
Sbjct: 58173637 aaaattaattgtcgcaaaatttattatttaaatttacatgcgcattaaatatacataaga
58173696

Query: 5177 aatttttagtggttat 5190
 ||||| |||||
Sbjct: 58173697 aatttttaatggttat 58173710

Score = 81.8 bits (41), Expect = 2e-12
Identities = 99/117 (84%), Gaps = 1/117 (0%)
Strand = Plus / Minus

Query: 2697 tgaatcaagggttatcaacatacacgtgagtcatcatttcaacctttcaaaatcacagaagaa
2756
 ||||| ||||| ||||| ||||| || || || || |||||
Sbjct: 10771922 tgaatcaagggttaccaacatacacgcaagtcacatcttttcagcctatcccaatcgcgagaa
10771863

Query: 2757 attaataccctacatgtcacaaagaacacaagtc aaataactt-actttatttaaatt
2812
 || || | ||||| ||||| ||||| ||||| | || ||||| ||||| |||||
Sbjct: 10771862 atcaagaacctacaagtcacaaagaacacaagttatatgacttgactttatttaaatt
10771806

Score = 81.8 bits (41), Expect = 2e-12
Identities = 92/109 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 |||||
 Sbjct: 19421821 aaaattaattgtaacaaaatttattattaaaatttatatatgcattaaataacattaga
 19421762

Query: 5177 aatttttagtggttatatttagtgaaattaattttttataacataattga 5225
 |||||
 Sbjct: 19421761 aatttttagtggttatgtataacaacattatttttttgtaacataattga 19421713

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 100/117 (85%), Gaps = 2/117 (1%)
 Strand = Plus / Minus

Query: 4764 ttaatctttttattgataccgtaa-taataattaataagtaataattttttatcaatatc
 4822
 |||||
 Sbjct: 19465996 ttaatctttttattggtactgtaagtaacaattaatgagcaacaactcttcactaatatt
 19465937

Query: 4823 atagctttggttagaaaaaaa-gagatttaataattaatagctaaagaaatccaaaa
 4878
 |||||
 Sbjct: 19465936 atagctttggttagaaaaaaaagagatttaatagttatagttaaagaaacccaaaa
 19465880

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 110/133 (82%)
 Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataaataacattagaaatttttagtggtta
 5189
 |||||
 Sbjct: 29721955 acaaaatttattatgtaaatttacatgtgtattaaataacattagaaattttactgtta
 29722014

Query: 5190 tatttagtgaaattaattttttataacataattgatgtattagttcagttggttagagc
 5249
 |||
 Sbjct: 29722015 tatatatcaacattaatcattttataatataattaacctattagctcaattgatgagaac
 29722074

Query: 5250 attatgttaataa 5262
 |||||
 Sbjct: 29722075 gttatgttaataa 29722087

```

Query: 5075      cctctcaagtccttgagccg 5094
                ||||| |||| |||||
Sbjct: 52825973 cctcttaagttcttgagccg 52825954

```

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 126/155 (81%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 3200838 aaaattaattgtcacaaaatttattatgtaaatttacacgtgcgtctaatacattaga
 3200779

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 | |||||
 Sbjct: 3200778 agtttttagtgaaatatataacgatattagtttaattttataatataattgactcattagttt
 3200719

Query: 5237 agttggtagagcattatgttaataatgtgaaagt 5271
 |||||
 Sbjct: 3200718 agttggttaaagcgtcctattaataatgtgaaagt 3200684

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 57/63 (90%)
 Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataaatatacattagaaatttttagtggtta
 5189
 |||||
 Sbjct: 13368483 acaaaatttattatgtaaatttacatatacattaaatataaattagaaatttttagtggtta
 13368542

Query: 5190 tat 5192
 |||
 Sbjct: 13368543 tat 13368545

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 132/162 (81%), Gaps = 2/162 (1%)
 Strand = Plus / Plus

Query: 7080 aatcgaactcaagaacaatgtgagag--tttgcctttttctgtatgtctttcatagcctt
 7137
 |||||

Sbjct: 48247278 aatcgaactcaagaacaatgtgtctgcattttcctttctctgtgtgtcattgatggcctt
48247337

Query: 7138 gtttaataacttttgtataaacttcaccaaagtgaatcactcttgcgacttctctccccct
7197

||||| ||||| ||||| ||| ||| ||||| | ||| | ||||| |||
Sbjct: 48247338 gtttagtacttccatataaacttggccagatgcaatcattgttgtggcttctctcccact
48247397

Query: 7198 ttggttgaacaatgcattacacctagtatatagggttgattttac 7239

|| ||||| ||||| ||||| ||| ||| ||||| |||
Sbjct: 48247398 tttgttgaataatgcattacaccttacatatgttgattttac 48247439

Score = 77.8 bits (39), Expect = 3e-11
Identities = 109/131 (83%), Gaps = 1/131 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 61064552 aaaattagttgttacaaaatttattatgtaaaattt-atgtgtattaaatatgaattaga
61064494

Query: 5177 aattttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| ||||| ||||| ||| | ||||| ||||| ||| ||||| ||||| |||||
Sbjct: 61064493 aaatttagtgttatatataacaacattaattattttttagcataattgacatatattagttc
61064434

Query: 5237 agttgggttaga 5247

| ||||| |||||
Sbjct: 61064433 aattgggttaga 61064423

Score = 75.8 bits (38), Expect = 1e-10
Identities = 62/70 (88%)
Strand = Plus / Plus

Query: 7687 tagtaattatttcctcatcatcttgcagcatatgcacctgtactgaaaacaatcaccaa
7746

|||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16239549 tagtcattatgtcctcatcatcctgcaacatgcatgcacctgtactggccacaatcaccaa
16239608

Query: 7747 caaatgatac 7756

|||||
Sbjct: 16239609 caaatgatac 16239618

Score = 75.8 bits (38), Expect = 1e-10
Identities = 59/66 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 20475154 aaaattaattgtcacaaaatttattatttaaatttacatgcacattacatatatacatcata
20475213

Query: 5177 aatttt 5182
|||||
Sbjct: 20475214 aatttt 20475219

Score = 75.8 bits (38), Expect = 1e-10
Identities = 59/66 (89%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggttttattcttaaatttgcttgag
5073

|||||
Sbjct: 52431341 ataattttaataaattattttatgagtaaataaaaagacctcattcttaaatttgctttag
52431400

Query: 5074 ccctct 5079
|||||
Sbjct: 52431401 gcctct 52431406

Score = 75.8 bits (38), Expect = 1e-10
Identities = 95/114 (83%)
Strand = Plus / Minus

Query: 6720 atatccattttggtgtgtatacgagaggagacatgacaacctttagaattttcttttcatt
6779

|||||
Sbjct: 53700542 atatccatttcagtgtggatacaagaggagacaagataacctttgtacttcttttcttt
53700483

Query: 6780 tttgggttgggggcaaattcttggcttgtgacatgggtgaccaacatgcttcattg 6833

Sbjct: 59793093 taaatatacattaaaaatttttagtgttatatataaggacattaattatttatatcataa
59793034

Query: 5222 tt 5223
 ||
Sbjct: 59793033 tt 59793032

Score = 75.8 bits (38), Expect = 1e-10
Identities = 74/86 (86%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataa
5221
 |||||
Sbjct: 60004199 taaatatacattagaaactTTtagtgatataTatatcgacgttaattatTTTtaacataa
60004258

Query: 5222 ttgatgtattagttcagttggTtaga 5247
 |||||
Sbjct: 60004259 ttgatctattagctcaattagTtaga 60004284

Score = 73.8 bits (37), Expect = 5e-10
Identities = 52/57 (91%)
Strand = Plus / Minus

Query: 5013 aataatTTTtaataaattatTTTtatgaataaataaaaggTttTattctTaaatttgct
5069
 |||||
Sbjct: 15327116 aataatTTTtaataaactatTTTtatgagtaaataaaagacattattctTaaatttgct
15327060

Score = 73.8 bits (37), Expect = 5e-10
Identities = 64/73 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 57562713 aaaattaattattacaaaatttattatctaaatttatatgtacattgactacatattaga
57562772

Query: 5177 aatTTtagtgTta 5189
 |||||
Sbjct: 57562773 aatTTtagtgTta 57562785

Score = 73.8 bits (37), Expect = 5e-10
Identities = 83/97 (85%), Gaps = 1/97 (1%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5175
|||||
Sbjct: 62202710 aaaaattaattgttacaaa-tttattatgtaaacttatatgtgtattaaatatacatat
62202652

Query: 5176 aaattttagtggttatatttagtgaaattaattatttt 5212
|||||
Sbjct: 62202651 aaattttagtggttatatatattgacgttaattatttt 62202615

Score = 71.9 bits (36), Expect = 2e-09
Identities = 54/60 (90%)
Strand = Plus / Minus

Query: 5131 caaaatttattatctaaatttgcacataaatatacatagaaattttagtggtat
5190
|||||
Sbjct: 23820987 caaaattaattatttaaattacatgtgcattaaatatacatagaaattttagtggtat
23820928

Score = 71.9 bits (36), Expect = 2e-09
Identities = 72/84 (85%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggtttattcttaaatttgcttgag
5073
|||||
Sbjct: 46160702 ataattttaataaactactttttgagtaaataaaaagggtatcattcctaaatttgctttag
46160761

Query: 5074 ccctctcaagtccttgagccgccc 5097
||
Sbjct: 46160762 gtctttcaagtccttgaaccgccc 46160785

Score = 71.9 bits (36), Expect = 2e-09
Identities = 96/116 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 60297680 aaaattaattgtcataaaaatttattatgtaaatttatatatgaattaaagatacattaaa
60297739

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232

|||||
Sbjct: 60297740 aatttttagtattatatataacaatattaattattttataaatataattgatctatta
60297795

Score = 69.9 bits (35), Expect = 7e-09
Identities = 68/79 (86%)
Strand = Plus / Plus

Query: 5259 ataatgtgaaagtcaaaagttcaattcttacttggatcattaattttaaattaatttgta
5318

|||||
Sbjct: 5486527 ataatctgaaagtcataagtttgattcttgcttgggccattaattttaaattaatttgtc
5486586

Query: 5319 aaatatatttttgaaaaaa 5337

||
Sbjct: 5486587 acaaatattttttaaaaaaa 5486605

Score = 69.9 bits (35), Expect = 7e-09
Identities = 107/131 (81%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 6919801 aaaattaattggttacaaaatttattatgtaaacttatatgtgtattaaatatgcattaaa
6919742

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||
Sbjct: 6919741 aaaatttgattatatataacaacattaattattttaataatataaattagttctattagttc
6919682

Query: 5237 agttgggttaga 5247

|||||

Sbjct: 6919681 agttggttaga 6919671

Score = 69.9 bits (35), Expect = 7e-09
Identities = 91/109 (83%), Gaps = 3/109 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

 ||||| | | ||||| ||||| || | || ||||| |
Sbjct: 53272647 aaaattaattatcataaaatttattatttaaatttacatacgcatataacattaaa
53272706

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225

 || |||| ||||| | || | |||| ||||| |||||
Sbjct: 53272707 aaatttaagtgtatgtata---acattatttattttataacataattga 53272752

Score = 69.9 bits (35), Expect = 7e-09
Identities = 57/63 (90%), Gaps = 1/63 (1%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtta
5189

 ||||| ||||| || | || | ||||| | ||||| |||||
Sbjct: 61451230 acaaaatttattatgttaaatttacatgtacattaaatata-aatagaaatttttagtggtta
61451172

Query: 5190 tat 5192

 |||
Sbjct: 61451171 tat 61451169

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/54 (90%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattattttatgaataaataaaaagggttttattcttaaattt 5066

 ||||| ||||| ||||| || | ||||| |||
Sbjct: 5329739 aataattttaataaactattttataaataaataaaaacatttcattcttaaattt 5329686

Score = 67.9 bits (34), Expect = 3e-08
Identities = 154/194 (79%)

Strand = Plus / Plus

Query: 7046 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag 7105
 |||||
 Sbjct: 16236142 attgtctcctagaccaagaactgtatgtcgtgtcgcattgaactcaagaacagtgtgagcc 16236201

Query: 7106 tttgcctttttctgtatgtctttcatagccttggttaatacttttgataaaacttcacca 7165
 |||||
 Sbjct: 16236202 tttgtctttctttgtgtgtctccgatggccttggttagtacttgcgataaaacttggcca 16236261

Query: 7166 aatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacctagta 7225
 |||||
 Sbjct: 16236262 gatgcatgcattggttgcggttttttccctcttttggtgaataatgcattacaccttaga 16236321

Query: 7226 taggttgattttac 7239
 ||
 Sbjct: 16236322 tatgttgattttac 16236335

Score = 67.9 bits (34), Expect = 3e-08
 Identities = 64/74 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga 5176
 |||||
 Sbjct: 19422252 aaaattaattataaccaaatttattatttaaatttacatacgcatataacattaaa 19422311

Query: 5177 aatttttagtggttat 5190
 ||
 Sbjct: 19422312 aacttttagtggttat 19422325

Score = 67.9 bits (34), Expect = 3e-08
 Identities = 46/50 (92%)
 Strand = Plus / Plus

Query: 5302 ttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351
 |||||

Sbjct: 23821547 ttttaaattaatttgtaacacatatTTTTTgaaaaaaaaatttaaaaaa 23821596

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/54 (90%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatTTTTatgaataaataaaaggTTTTattcttaaatttg 5067
|||||
Sbjct: 57160771 ataattttaataaactatTTTTatgagtaataaaagacttcattcttaaatttg
57160824

Score = 67.9 bits (34), Expect = 3e-08
Identities = 92/110 (83%), Gaps = 1/110 (0%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataaataacattagaaatttttagtggtta
5189
|||||
Sbjct: 58448466 acaaaatttattatcatgtaaatttacataattcattaaataaattagaaatttttagtggtta
58448407

Query: 5190 tatttagtgaaattaattatTTTTataacataattgatgtattagttcagt 5239
||| ||| ||| ||| ||| |||
Sbjct: 58448406 tatataatgatatt-atttgTTTataacataatgtatctattagctcagt 58448358

Score = 67.9 bits (34), Expect = 3e-08
Identities = 46/50 (92%)
Strand = Plus / Minus

Query: 5290 ttggatcattaatttttaaattaatttgtaaaatatTTTTgaaaaaaaa 5339
|||||
Sbjct: 60466397 ttggaccattaatttttaaattaattttataaaaacatatTTTTgataaaaa 60466348

Score = 65.9 bits (33), Expect = 1e-07
Identities = 67/78 (85%), Gaps = 4/78 (5%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacgc---acaataaatacat
5172
|||||

Sbjct: 2187175 aaaattaattatcataaaatttattattttaaaatttacatgcgcacacattaaatatacat
2187116

Query: 5173 tagaaatttttagtggttat 5190
||||| ||||| ||||| |||||
Sbjct: 2187115 tagacatttttagtggttat 2187098

Score = 65.9 bits (33), Expect = 1e-07
Identities = 66/77 (85%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattag
5175
||||| ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3672521 aaaaaataattatcacaaagtttattatgttaaatttacatatacattaaatataaattag
3672580

Query: 5176 aaatttttagtggttatat 5192
||||||| ||||| |||||
Sbjct: 3672581 aaattttaatgttatat 3672597

Score = 65.9 bits (33), Expect = 1e-07
Identities = 105/129 (81%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6233808 aaaattaattgtcacaaaatttattattttaaaatttacatttgtattaaatataatattaaa
6233867

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6233868 atttttactgttatataataacaatattattttattttatcataattaacctattaattt
6233927

Query: 5237 agttgggta 5245
||||| |||||
Sbjct: 6233928 agttgggta 6233936

Score = 65.9 bits (33), Expect = 1e-07

Identities = 54/61 (88%)
Strand = Plus / Plus

Query: 5120 attaattgttacaaaatttattatctaaatttgcacataaatatacattagaaat
5179
 ||||| ||||| ||||| ||||| ||| | ||||| ||||| |||||
Sbjct: 51232368 attaattgtcacaaaatttattatgttaaatttacatgtgtattaaatatacattagaaat
51232427

Query: 5180 t 5180
 |
Sbjct: 51232428 t 51232428

Score = 63.9 bits (32), Expect = 4e-07
Identities = 41/44 (93%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAA 5339
 ||||| ||||| | ||||| ||||| |||||
Sbjct: 7052320 cattaatttttaaattaatttcgtaacacatatTTTTGAAAAAAAA 7052363

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Minus

Query: 6431 tcctttgtatTTTTatTTTatTTtgattattataatacata 6470
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15045726 tcctttgcattTTTTatTTTatTTtgattattaaaatacata 15045687

Score = 63.9 bits (32), Expect = 4e-07
Identities = 70/82 (85%), Gaps = 3/82 (3%)
Strand = Plus / Plus

Query: 6872 acttttcagcgatatacacaagatgtatgtagttcctataactcatggtgagcatgcttata
6931
 ||||| || ||||| | ||||| ||||| || ||||| ||||| |||||
Sbjct: 48245455 actttccaacgtatacaggagatgtatgtagtttctgtactcatgatgagcatgcttaca
48245514

Query: 6932 ---aacaacaacatgagaacaa 6950
 | ||||| ||||| |||||
Sbjct: 48245515 agcagcaacaacatgagaacaa 48245536

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 65/76 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||||| ||||| || || | ||||| ||||| |
 Sbjct: 55342977 aaaattaattattacaaaatttattatgtaaaattatatgaattaaatatacattaaa
 55342918

Query: 5177 aatttttagtggttatat 5192
 ||||| |||||
 Sbjct: 55342917 aatttttagtggttatat 55342902

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 34/35 (97%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| ||||| |||||
 Sbjct: 284220 aaaattaattggttacaaaatttattatgtaaattt 284254

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 58/67 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 4541019 aaaattaattggttacaaaatttggtattttaatttacatgtgtattaaatatacattaaa
 4540960

Query: 5177 aatttta 5183
 || ||||
 Sbjct: 4540959 aaattta 4540953

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 49/55 (89%)
 Strand = Plus / Minus

```
Query:  5177      aatttta 5183
          |||||
Sbjct: 14978521 aatttta 14978515
```

Score = 62.0 bits (31), Expect = 2e-06
Identities = 52/59 (88%)
Strand = Plus / Plus

Query: 7308 gccaccatcccatgcgagagtccacttttcttgtggaatcttcctaagctaattaattg
7366
|||||
Sbjct: 16236423 gccaccatcccatgcgagagtctattttcttgtagaatcttggtgagccaattaattg
16236481

Score = 62.0 bits (31), Expect = 2e-06
Identities = 52/59 (88%)
Strand = Plus / Minus

Query: 6580 aaaatatttaaatttgaaataatacaacaaaaattttaaaatacaaacaatatggcata
6638
|||||
Sbjct: 18460861 aaaatatttaaatttgaaacaaaagaataaaaatttttaaaatacaaagaatatgacata
18460803

Score = 62.0 bits (31), Expect = 2e-06
Identities = 52/59 (88%)
Strand = Plus / Minus

Query: 5282 attcttacttggaatcattaatttttaaatatttgtaaaatatatttttgaaaaaaaaa
5340
|||||
Sbjct: 41483942 attctttcttgaaccattaatttttaaatcataaattatatatttttgaaaaaaaaa
41483884

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtta
5189
|||||
Sbjct: 41484090 acaacatttatcatgtaaatttacatatacattaaatataaattagaaatttttagtggtta
41484031

Query: 5190 tat 5192
 |||
Sbjct: 41484030 tat 41484028

Score = 62.0 bits (31), Expect = 2e-06
Identities = 64/75 (85%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737
 |||| | |||| | |||| || |||| || |||| | |||| | |||| |||| ||||
Sbjct: 48236096 atgcaacacacgaaacatcactttggttaaccggttcttgaatatccattttgatgtgg
48236155

Query: 6738 atacgagaggagaca 6752
 |||| |||| ||||
Sbjct: 48236156 atacgagagaagaca 48236170

Score = 62.0 bits (31), Expect = 2e-06
Identities = 73/87 (83%)
Strand = Plus / Minus

Query: 5138 tattatctaaatttgcatgcacaataaatatacattagaaatttttagtggttatatttagt
5197
 |||| | |||| | |||| || || |||| |||| |||| || || |||| ||||
Sbjct: 50947147 tattatttaaattttacatgagcattaaataacattagaaattggttgatataatagt
50947088

Query: 5198 gaaattaattattttataacataattg 5224
 | |||| | |||| | |||| ||||
Sbjct: 50947087 aacattatttatttgataacctaattg 50947061

Score = 62.0 bits (31), Expect = 2e-06
Identities = 40/43 (93%)
Strand = Plus / Minus

Query: 7179 ttgcgacttctctccccctttggttgaacaatgcattacacct 7221
 |||| | |||| |||| |||| |||| |||| |||| |||| ||||
Sbjct: 53700111 ttgcaacttctctccctcttttggttgaacaatgcattacacct 53700069

Query: 5140 ttatctaaatttgcattgcacaataaatatacattagaaattttagtggttatatttagtga
5199

Sbjct: 13309519 cattattttattttataacgtaattgactcattagctcaattggttagagcgttgtgctaa
13309578

Score = 60.0 bits (30), Expect = 7e-06
Identities = 45/50 (90%)
Strand = Plus / Minus

Score = 60.0 bits (30), Expect = 7e-06
Identities = 48/54 (88%)
Strand = Plus / Minus

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Score = 58.0 bits (29), Expect = 3e-05

Identities = 65/77 (84%)
Strand = Plus / Minus

Query: 5019 ttttaataaattatTTTTatgaataaataaaaagggttttattcttaaatttgcttgagccctc
5078
 ||||||||||||||||||| ||||||||| | | | ||||||||||| || || |||
Sbjct: 43288983 ttttaataaattatTTTTatgagtaaataaaaagatctcaatcttaaatttatttttaggtctc
43288924

Query: 5079 tcaagtccttgagccgc 5095
 | ||||||||||| |||||
Sbjct: 43288923 ttaagtccttgaaccgc 43288907

Score = 58.0 bits (29), Expect = 3e-05
Identities = 36/37 (97%), Gaps = 1/37 (2%)
Strand = Plus / Plus

Query: 1199 atacctttctcggccttttggctaagatcaagtgtag 1235
 ||||||||||||||||||| |||||||||||||||||
Sbjct: 60372962 atacctttctcggcctttt-gctaagatcaagtgtag 60372997

Score = 56.0 bits (28), Expect = 1e-04
Identities = 85/104 (81%)
Strand = Plus / Plus

Query: 5201 attaattatTTTtataacataaattgatgtattagttcagttgggttagagcattatgttaat
5260
 |||| ||||||||||||||||||| ||||| | | ||||||||||| | | |||||
Sbjct: 4541221 attatttattTTtataacataaattgacatattaacttaattgggttagagcaatgtactaat
4541280

Query: 5261 aatgtgaaagtcaaaagttcaattcttacttggatcattaattt 5304
 || ||||||||| | ||| | | |||||||||||||||||
Sbjct: 4541281 aacctgaaagtcacaggtttgactattacttggatcattaattt 4541324

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 5291 tggatcattaattTTTaaattaatttgtaaaatatatTTTT 5330
 |||| ||||||||||||||||||| ||||| |||||||||
Sbjct: 4685915 tggaccattaattTTTaaattaattcgtaaaacatatTTTT 4685876

Score = 56.0 bits (28), Expect = 1e-04
Identities = 31/32 (96%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaa 5148
 |||||
Sbjct: 6228902 aaaattaattggtacaaaatttattatgtaaa 6228871

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 5196 gtgaaattaattattttataacataattgatgtatt 5231
 |||||
Sbjct: 11698904 gtgacattaattattttataacataattgatttatt 11698939

Score = 56.0 bits (28), Expect = 1e-04
Identities = 49/56 (87%)
Strand = Plus / Plus

Query: 7183 gacttctctccccctttggttgaacaatgcattacacctagtaggttgatttta 7238
 |||||
Sbjct: 49275552 gacttctctccttcttttgggtgaacaatgcattacaccttagatatgttgatttta
49275607

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatattttt 5330
 |||||
Sbjct: 52341058 tcattaatttttaaattattttataaaaatatattttt 52341093

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacatggat 1680
|||||
Sbjct: 3103103 gccttatcccactaggtgaagtcggctacatggat 3103137

Score = 54.0 bits (27), Expect = 4e-04
Identities = 51/59 (86%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaaatatacat
5174
|||||
Sbjct: 3332640 aaaaattaatttttacaaaattaattaggtaaatttacatgtacattaaatatacat
3332698

Score = 54.0 bits (27), Expect = 4e-04
Identities = 45/51 (88%)
Strand = Plus / Minus

Query: 7298 cccatcgccagccaccatcccatgagagagtcacttttcttgtggaatct 7348
|||||
Sbjct: 15044789 cccatcgtcaactaccatcccatgcaagagtcacttttcttgcggaatct 15044739

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
|||||
Sbjct: 49274912 acaagttgaattgaactaaaatatttaaatt 49274942

Score = 54.0 bits (27), Expect = 4e-04
Identities = 36/39 (92%)
Strand = Plus / Plus

Query: 5281 aattcttacttggatcattaatttttaaattaatttgtaa 5319
|||||
Sbjct: 53272796 aattcttgcttaggtcattaatttttaaattaatttgtaa 53272834

Score = 54.0 bits (27), Expect = 4e-04
Identities = 127/159 (79%), Gaps = 1/159 (0%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacatta
5174
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 58629642 aaaaatttaattattacaaaatttattatgtaaacttatatatgtattaaatataaatta
58629583

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
5234
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 58629582 gaaattttag-cctatatataatgacactaattattttagaatataattgacctattagc
58629524

Query: 5235 tcagttggtagagcattatgttaataatgtgaaagtca 5273
 | | ||| | ||||| || ||||| ||||| ||||| |||||
Sbjct: 58629523 ttaattgataagagcgttggtgtaataacatgaaagtca 58629485

Score = 54.0 bits (27), Expect = 4e-04
Identities = 45/51 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattatattt 5212
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 60059850 taaatatacattacaaaattttagtatttatatatagtgacattaattatattt 60059800

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 5308 attaatgtgtaaaatatatttttgaaaaaaaaaat 5341
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3168813 attaatgtataaattatatatttttgaaaaaaaaaat 3168780

Score = 52.0 bits (26), Expect = 0.002
Identities = 26/26 (100%)
Strand = Plus / Minus

Query: 5296 cattaattttaaattaatttgtaaaa 5321

|||||
Sbjct: 3169854 cattaatttttaaattaatttgtaaaa 3169829

Score = 52.0 bits (26), Expect = 0.002
Identities = 71/86 (82%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221

||||| |||| || ||||| ||||| || | | ||||| ||||| ||
Sbjct: 3332429 taaatataatataaaaaatttagtggttatataacaacctcaattattttataacatta
3332370

Query: 5222 ttgatgtattagttcagttggttaga 5247
|||| | |||| ||||| |||||
Sbjct: 3332369 ttgatctattaactcagttgattaga 3332344

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 1649 ttatcccactaggtggggtcggctacatggatca 1682
||||| ||||| ||||| ||||| |||||
Sbjct: 34213367 ttatcccactaggtgaagggtcggctacatggatca 34213400

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa 4787
||||| ||||| ||||| ||||| |||||
Sbjct: 57160634 taactgttaatctttttattggtaccgtaa 57160663

Score = 52.0 bits (26), Expect = 0.002
Identities = 44/50 (88%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaaa 5165
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 58912888 aaaaattaattatcacaaaatttattatgttaaatttacatgtacattaaa 58912937

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatt 5150
 |||||
Sbjct: 60059883 aaaattaattggtataaaaatttattatgtaaatt 60059850

Score = 52.0 bits (26), Expect = 0.002
Identities = 35/38 (92%)
Strand = Plus / Minus

Query: 5293 gatcattaatttttaaattaatttgtaaaatatatTTTT 5330
 |||||
Sbjct: 61064393 gatcattaatttttaaattatttcgtaaaacatatTTTT 61064356

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1199 atacctttctcggccttttggctaagatcaagtgtag 1235
 |||||
Sbjct: 4972785 ataccttttataggccttttggctaagattaagtgtag 4972821

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Plus

Query: 5164 aatatacattagaaatttttagtggtatat 5192
 |||||
Sbjct: 6036278 aatatacataagaaatttttagtggtatat 6036306

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 5323 atatTTTTgaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||||| |||||||||
Sbjct: 7052009 atatTTTTgaaaaaaaaattttaaaaaaa 7051981

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 5323 atatTTTTgaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||||| |||||
Sbjct: 8827650 atatTTTTgaaaaaaaaattatataaaaa 8827622

Score = 50.1 bits (25), Expect = 0.007
Identities = 43/49 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaa 5165
 ||||||||||||| | ||||||||||||||| ||||| ||| |||
Sbjct: 11698836 aaaattaattgtgataaaaatttattatccaaatttacatgtacactaaa 11698884

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1646 gccttatccactaggtggggctcggctacatggatca 1682
 |||| ||| ||||||||| |||||||||||||||||
Sbjct: 14754584 gcctcatctcactaggtgaggtcggctacatggatca 14754620

Score = 50.1 bits (25), Expect = 0.007
Identities = 98/122 (80%), Gaps = 4/122 (3%)
Strand = Plus / Minus

Query: 5135 atttattatctaaatttgcacatgcacaataaatatacattagaaattttagtg----ttat
5190
 ||||||||| |||||| ||||| || ||||||||| ||||||||| ||||| |||||
Sbjct: 39403189 atttattattcaaatttacatgcgcattaaatatgtattagaaatgtagtgataattat
39403130

Query: 5191 atttagtgaaattaattattttataacataattgatgtattagttcagttgggtagagca
5250

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Score = 50.1 bits (25), Expect = 0.007
Identities = 46/53 (86%)
Strand = Plus / Minus

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Minus

Score = 50.1 bits (25), Expect = 0.007
Identities = 37/41 (90%)
Strand = Plus / Plus

```
Query: 5117      aaaattaattgttacaaaatttattatctaaatttgcattgc 5157
               |||||
Sbjct: 56378838 aaaattaattatcacaaaatttattatttaatttacattgc 56378878
```

Score = 50.1 bits (25), Expect = 0.007
Identities = 54/63 (85%), Gaps = 3/63 (4%)
Strand = Plus / Plus

Query: 5289 cttggatcattaatTTTaaattaatttgtaaaatatTTTTtgaaaaaaaaattataaaa
5348
 ||||| ||||||||||||||||||||| || | | ||||||| ||||||||||||| |||||
Sbjct: 58173774 cttgaatcattaatTTTaaattaattcgtcataaatattt---aaaaaaaaattttaaaa
58173830

Query: 5349 aaa 5351
 |||
Sbjct: 58173831 aaa 58173833

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggtacatggatca 1682
 ||||||||||||||||||||| ||||| |||||||||||||
Sbjct: 60324397 gccttatcccactaggtgaggtcaactacatggatca 60324361

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 5290 ttggatcattaatTTTaaattaatttgt 5317
 ||||| ||||||||||||||||||||| |||||
Sbjct: 6015092 ttgggtcattaatTTTaaattaatttgt 6015065

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5287 tacttggatcattaatTTTaaatt 5310
 ||||||||||||||||||||| |||||
Sbjct: 6051899 tacttggatcattaatTTTaaatt 6051922

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 5323 atatTTTTgaaaaaaaaaattataaaaaa 5350
 ||||||||||||||||||||| |||||
Sbjct: 7052102 atatTTTTgaaaaaaaaaattataaaaaa 7052075

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5200 aattaattatTTTataacataatt 5223
 |||||||||||||||||||||
Sbjct: 14635265 aattaattatTTTataacataatt 14635288

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 2577 ttgtaaataatTTTTTTTTtctt 2600
 |||||||||||||||||||||
Sbjct: 14805107 ttgtaaataatTTTTTTTTtctt 14805130

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 ||||||||| ||||||||||||||||| |||||
Sbjct: 22271973 aaaattaattattacaaaatttattatgtaa 22271942

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||||||||

Sbjct: 28359591 tttttttttaaaaaaaaaaaaaaaca 28359568

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 33140639 aactttttttttaaaaaaaaaaaaaa 33140616

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 48649186 aactttttttttaaaaaaaaaaaaaa 48649163

Score = 48.1 bits (24), Expect = 0.026
Identities = 42/48 (87%)
Strand = Plus / Minus

Query: 5293 gatcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
||||| | |
Sbjct: 53272185 gatcattaatttttaaattaattcatggtacatatatttttgaaaaaaaaa 53272138

Score = 48.1 bits (24), Expect = 0.026
Identities = 51/60 (85%)
Strand = Plus / Minus

Query: 7306 cagccaccatcccatgcgagagtcacttttcttggtgaatcttcctaagctaattaatt
7365
|||| |
Sbjct: 53699965 cagctaccatcccatgcaagagtcatttttctcgcgaaatcttggttaagccaattaatt
53699906

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)

Strand = Plus / Minus

```
Query: 5329      ttgaaaaaaaaattataaaaaaat 5352
               |||||
Sbjct: 60550641 ttgaaaaaaaaattataaaaaaat 60550618
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

```
Query: 5161      ataaatatacattagaaatttta 5183
               |||||
Sbjct: 2625261 ataaatatacattagaaatttta 2625283
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

```
Query: 5117      aaaattaattgttacaaaatttattat 5143
               |||||
Sbjct: 5959966 aaaattaattgtgacaaaatttattat 5959992
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

```
Query: 5117      aaaattaattgttacaaaatttattat 5143
               |||||
Sbjct: 7052201 aaaattaattgtcacaaaatttattat 7052227
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

```
Query: 5117      aaaattaattgttacaaaatttattatctaaattt 5151
               |||||
Sbjct: 15715071 aaaattaattgtcataaaaatttattatttaaattt 15715105
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 6520 gttgacttgaactaaaatatttaaatt 6546
 ||||| ||||||||||||||||||||
Sbjct: 16235640 gttgaattgaactaaaatatttaaatt 16235666

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6043 ttttttatccaaataataaaaaaaaaattaat 6073
 ||||||||||||| ||| |||||||||||||
Sbjct: 16721551 ttttttatccaaaaatacaaaaaaattaat 16721521

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 ||||||| | ||||||||||||||||||||
Sbjct: 18460878 acaagtttaattgaactaaaatatttaaatt 18460848

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5570
 ||||||||||||||||||||
Sbjct: 18829665 ttttttttaaaaaaaaaaaaaaaca 18829643

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 7124 tctttcatagccttgtttaatacttttgtataaac 7158
 ||||| ||||||||||||| ||| |||||||||||||
Sbjct: 43714249 tcttccatagccttgttcaatatttttgtataaac 43714215

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
 ||||| ||||| ||||| ||||| |||||
Sbjct: 48212390 aaaattaattgtcataaaaatttattatttaaattt 48212356

Score = 46.1 bits (23), Expect = 0.10
Identities = 47/55 (85%)
Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcattgcacaataaatatacattagaaatttttagtg 5186
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 51108236 aaaatttattattcaaatttacctgtgcattaaatatgcattagaaatgtagtg
51108290

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatattttt 5330
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 56671917 cattaatttttaaattaatttataaaaacattttttt 56671951

Score = 46.1 bits (23), Expect = 0.10
Identities = 77/95 (81%)
Strand = Plus / Plus

Query: 5168 tacattagaaatttttagtggttatatttagtgaaattaattattttataacataattgatg
5227
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 58912929 tacattaaaaatattaatattatatataacgcattaaattattttataacgtaattgggt
58912988

Query: 5228 tattagttcagttgggttagagcattatgttaataa 5262
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 58912989 tattagctcaattaattaaaatattatgttaataa 58913023

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaca 5570
 ||||||||||||||||||||
Sbjct: 59272944 tttttttttaaaaaaaaaaaaaaca 59272966

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682
 |||||||||||||||| || | ||||||||||||
Sbjct: 59349004 cttatcccactaggtgaggtaagctacatggatca 59348970

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5296 catthaatttttaaattaatttgtaaaatatatTTTT 5330
 |||| | |||||||||| || | ||||||||||||
Sbjct: 62202530 catttatttttaaattatttcgtaaaatatatTTTT 62202496

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggtata 5191
 |||||||||||||| || || || || || || ||
Sbjct: 314041 taaatatacattaaaaattttaatggtata 314012

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaattt 5151

```
          ||||| || ||||| ||||| |||||
Sbjct: 1896994 aaattaatagtcacaaaatttattatgtaaattt 1897027
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

```
Query: 6289      ttgtttgtatTTTTtattttttttgtt 6314
          ||||| ||||| ||||| |||||
Sbjct: 3493006 ttgtttgtacttttattttttttgtt 3493031
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

```
Query: 1845      gtcttctctctacatgcccaaaccacctaa 1874
          ||||| | ||||| ||||| |||||
Sbjct: 7351217 gtcttctcaccacatgcccaaaccacctaa 7351246
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

```
Query: 3617      tgaactggtatttctaaatccaaaactaac 3646
          ||||| ||||| ||||| |||||
Sbjct: 10773075 tgaactgctatttctaaatccataactaac 10773046
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 37/42 (88%)
Strand = Plus / Plus

```
Query: 5117      aaaattaattgttacaaaatttattatctaaatttgcattgca 5158
          ||||| ||||| | ||||| ||||| ||||| |||||
Sbjct: 14978878 aaaattaattataataaaaatttattatttaaatttacattgca 14978919
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 6520 gttgacttgaactaaaatattttaa 6545
 ||||| |||||||||||||||||||
Sbjct: 15045656 gttgaattgaactaaaatattttaa 15045631

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||
Sbjct: 16054565 actttttttttaaaaaaaaaaaaaa 16054586

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||||||||||||||||||
Sbjct: 17338428 tttttttttaaaaaaaaaaaaaaac 17338449

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5566
 |||||||||||||||||||
Sbjct: 26148093 aactttttttttaaaaaaaaaaaaaa 26148072

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||
Sbjct: 32945417 cttttttttttaaaaaaaaaaaaaa 32945396

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 4880 tttttcttttatttttattttg 4901
 ||||||||||||||||||
Sbjct: 35617642 tttttcttttatttttattttg 35617621

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||
Sbjct: 45707942 tttttttttaaaaaaaaaaaaaaac 45707963

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||
Sbjct: 48215492 tttttttttaaaaaaaaaaaaaaac 48215513

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 7315 tcccatgcgagagtccacttttcttgtggaatct 7348
 |||||||||||||||||| ||||| || |||||
Sbjct: 48247526 tcccatgcgagagtccatttttctcgttgaatct 48247559

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 6484 ttaattgaaattaaaaaatatatatt 6509
 |||||||||| ||||||||||
Sbjct: 59185349 ttaattgaaatgaaaaaatatatatt 59185374

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 127632 tttttttttaaaaaaaaaaaaaa 127652

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 521012 actttttttttaaaaaaaaaaaaaa 520992

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5313 tttgtaaaatatattttttgaa 5333
 ||||||||||||||||||
Sbjct: 1207984 tttgtaaaatatattttttgaa 1207964

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6154 tttttttatacathtagaaatt 6174
 ||||||||||||||||||
Sbjct: 1422086 tttttttatacathtagaaatt 1422106

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568

|||||
Sbjct: 1980127 tttttttttaaaaaaaaaaaaaa 1980107

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 1203 ctttctcggccttttggctaagatcaagt 1231
|||||
Sbjct: 2422166 ctttcttggccttttggctaaggtaagt 2422194

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4989 ttattttactttgatacatta 5009
|||||
Sbjct: 3325477 ttattttactttgatacatta 3325457

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 3804875 tttttttttaaaaaaaaaaaaaa 3804895

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5556 aaaaaaaaaaaaaacaagtaataaaa 5580
|||||
Sbjct: 4309167 aaaaaaaaaaaaaaagtaataaaa 4309143

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 6287 aattgtttgtatTTTTATTTTTTTTgtta 6315
 ||||| |||| | ||||| |||||
Sbjct: 5267347 aattgtttgtttttaatttttttgtta 5267375

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 3223 tccttaaataaataatgtgtt 3243
 ||||| ||||| ||||| |||||
Sbjct: 6991931 tccttaaataaataatgtgtt 6991951

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| |||||
Sbjct: 9630909 ttttttttaaaaaaaaaaaaaa 9630889

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 1199 atacctttctcggccttttggctaagatcaagt 1231
 ||||| ||||| ||||| |||||
Sbjct: 10217111 atacctttctcagccttttggccaatatcaagt 10217079

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 2548 aacatgtaccagattctcgttcttt 2572
 ||||| ||||| ||||| |||||
Sbjct: 10772093 aacatgtacaagattctcgttcttt 10772069

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5318 aaaatatatTTTTGAAAAAA 5338
 |||||||
Sbjct: 10903886 aaatatatTTTTGAAAAAA 10903906

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 TTTTTTTAAAAAAAAAAAA 5568
 |||||||
Sbjct: 11789551 TTTTTTTAAAAAAAAAAAA 11789531

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6492 aattaaaaatatatttaa 6512
 |||||||
Sbjct: 14543648 aattaaaaatatatttaa 14543628

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 TTTTTTTAAAAAAAAAAAA 5568
 |||||||
Sbjct: 15446154 TTTTTTTAAAAAAAAAAAA 15446174

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4880 TTTTTCTTTATTTTATTT 4900
 |||||||
Sbjct: 17624747 TTTTCTTTATTTTATTT 17624767

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 19508439 tttttttttaaaaaaaaaaaaaa 19508459
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5318      aaaatatatttttgaaaaaaa 5338
                |||||
Sbjct: 20475084 aaaatatatttttgaaaaaaa 20475064
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 21464133 tttttttttaaaaaaaaaaaaaa 21464113
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5545      aactttttttttaaaaaaaaaaaa 5565
                |||||
Sbjct: 24229210 aactttttttttaaaaaaaaaaaa 24229230
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
```

|||||
Sbjct: 25654893 ttttttttaaaaaaaaaaaaaa 25654873

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 27997231 ttttttttaaaaaaaaaaaaaa 27997211

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 28021394 ttttttttaaaaaaaaaaaaaa 28021374

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 28451693 ttttttttaaaaaaaaaaaaaa 28451673

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 29324277 ttttttttaaaaaaaaaaaaaa 29324257

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttt 6284
|||||||
Sbjct: 29359519 cttttttttttgttttgtttt 29359539

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 30658867 tttttttttaaaaaaaaaaaaaa 30658887

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5306 aaattaatttgtaaaatatattttt 5330
||||||| |||||
Sbjct: 31348883 aaattaatttgtaaaatatattttt 31348907

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5124 attggtacaaaatttattatctaaa 5148
||||||| |||||
Sbjct: 38341159 attggtacaaaatttattatgtaaa 38341183

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5016 aattttaataaattattttat 5036
|||||||
Sbjct: 41763843 aattttaataaattattttat 41763863

Score = 42.1 bits (21), Expect = 1.6
Identities = 36/41 (87%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtccact 7333
 ||||| | | | | | | | | | | | | | | | | |
Sbjct: 43714058 gtgtcccatcgctcggcctacatcccatgtgagagtccact 43714018

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 4795 taataagtaataattttttatcaat 4819
 ||||| | | | | | | | | | | | | | | | | |
Sbjct: 44966788 taataaataataattttttatcaat 44966764

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 3897 atgatttttttttaaataaaaaatt 3921
 ||||| | | | | | | | | | | | | | | | | |
Sbjct: 45933365 atgatttttattaaataaaaaatt 45933341

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5542 ttgaacttttttttaaaaaaaaaa 5566
 ||||| | | | | | | | | | | | | | | | | |
Sbjct: 47600233 ttgaaatttttttttaaaaaaaaaa 47600257

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4121 tgtgaaggaggagattggagatt 4141
 ||||| | | | | | | | | | | | | | | | | |
Sbjct: 48206742 tgtgaaggaggagattggagatt 48206722

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 4872 tccaaaagtttttcttttattttta 4896
 ||||| ||||||||||||||||
Sbjct: 48438731 tccaaaatttttcttttattttta 48438707

Score = 42.1 bits (21), Expect = 1.6
Identities = 58/69 (84%), Gaps = 1/69 (1%)
Strand = Plus / Plus

Query: 5173 tagaaatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta
5232
 |||||||||||||||||| || | | | | || |||||||||| || | ||||
Sbjct: 50086665 tagaaatttttagtggttatatatagcgacact-atttggtttataacataatgtggtttatta
50086723

Query: 5233 gttcagttg 5241
 |||||||||
Sbjct: 50086724 gttcagttg 50086732

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 50618763 ttttttttaaaaaaaaaaaaaa 50618743

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 50618748 ttttttttaaaaaaaaaaaaaa 50618768

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 53359512 ttttttttaaaaaaaaaaaaaaac 53359532

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 7736 acaatcaccaacaaatgatac 7756
 |||||
Sbjct: 53694007 acaatcaccaacaaatgatac 53693987

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6492 aattaaaaaatatatatttaa 6512
 |||||
Sbjct: 54453247 aattaaaaaatatatatttaa 54453267

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattag 5233
 ||||| || || |||||
Sbjct: 54821677 attaattattttataacatgattaatttattag 54821645

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 3884 tgattttgtaaaaatgatttt 3904
 |||||
Sbjct: 55194790 tgattttgtaaaaatgatttt 55194810

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5331 gaaaaaaaaattataaaaaaa 5351
|||||||
Sbjct: 58342249 gaaaaaaaaattataaaaaaa 58342269

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgtttgtttta 6285
|||||||
Sbjct: 58477600 ttttttttttgtttgtttta 58477580

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatat 5324
||||||| ||| |||||
Sbjct: 58659935 cattaatttttaaattattttataaaatat 58659963

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 58680411 ttttttttaaaaaaaaaaaaaa 58680391

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 61225592 tttttttttaaaaaaaaaaaaaa 61225612

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 127647 tttttttttaaaaaaaaaaaaaa 127628

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgttttaaa 6287
 |||| |
Sbjct: 728435 ctttattttttgttttgttttaaa 728458

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaa 5335
 ||||| ||||| ||| |||| |
Sbjct: 1568031 cattaacttttaaatgaattcataaaacatatatttttgaaaa 1568070

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5552 ttttaaaaaaaaaaaaaaaca 5571
 |||||||
Sbjct: 2471654 ttttaaaaaaaaaaaaaaaca 2471635

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                |||||||||||||||||||
Sbjct: 2956467 tttttttttaaaaaaaaaaaaaa 2956486
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                |||||||||||||||||||
Sbjct: 4415933 tttttttttaaaaaaaaaaaaaa 4415914
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                |||||||||||||||||||
Sbjct: 4415918 tttttttttaaaaaaaaaaaaaa 4415937
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6265      ttttttttttgttttgtttt 6284
                |||||||||||||||||||
Sbjct: 5045609 ttttttttttgttttgtttt 5045590
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 5547      cttttttttttaaaaaaaaaaaaaaaca 5570
                ||||||||| |||||||||||||||
Sbjct: 5209123 cttttttttttaaaaaaaaaaaaaaaca 5209100
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 6600552 ctttttttttaaaaaaaaaa 6600533

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6297 atttttattttttttgttattaat 6320
|||||||
Sbjct: 6896227 atttttattttttttattattaat 6896204

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaca 5571
|||||||
Sbjct: 7675606 tttttttttaaaaaaaaaataaaca 7675629

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttat 4900
|||||||
Sbjct: 7850246 ttttcttttatttttat 7850227

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5029 tattttatgaataaataaaa 5048
|||||||
Sbjct: 8165458 tattttatgaataaataaaa 8165439

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 8351072 ctttttttttaaaaaaaaaa 8351053

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaa 5567
|||||||
Sbjct: 8503749 ttttttttaaaaaaaaaa 8503730

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaa 5568
|||||||
Sbjct: 8726962 ttttttttaaaaaaaaaa 8726981

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaa 5567
|||||||
Sbjct: 9630894 ttttttttaaaaaaaaaa 9630913

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5319 aaatatatTTTTGAAAAAAAAATTATAA 5346
 ||||| |||||||||||||||| |||||
Sbjct: 9718269 aaataaTTTTGAAAAAAAAACTTATAA 9718242

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6043 TTTTTATCCAAATAATAAAAAAA 6066
 ||||||||| |||||||||||||
Sbjct: 9791981 TTTTTATCCTAATAATAAAAAAA 9792004

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 TTTTTTTTAAAAAAAAAAAAA 5567
 |||||||||||||||||||
Sbjct: 10604696 TTTTTTTTAAAAAAAAAAAAA 10604677

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5536 TTGTTATTGAACTTTTTTTAAAAAAA 5563
 ||||| | |||||||||||||||||
Sbjct: 10904348 TTGTTAGTTAACTTTTTTTAAAAAAA 10904375

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4883 TTCTTTTATTTTATTTTGT 4902
 |||||||||||||||||
Sbjct: 11332969 TTCTTTTATTTTATTTTGT 11332988

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

```
Query: 6298      tttttattttttttgttattaatt 6321
                |||||
Sbjct: 11344980 tttttattttttttattattaatt 11344957
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 4786      aataataattaataagtaataatt 4809
                |||||
Sbjct: 11373122 aataataattaataattaataatt 11373099
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5549      tttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 12365528 tttttttaaaaaaaaaaaaaa 12365509
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

```
Query: 1655      cactaggtggggtcggctacatggatca 1682
                |||||
Sbjct: 12593855 cactaggtgaggtcagctacatggatca 12593882
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttaaaaaaaaaaaaaa 5567
                |||||
Sbjct: 12668728 tttttttaaaaaaaaaaaaaa 12668747
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaacaagtaataaaaaa 5582
||||||| ||||| || |||||
Sbjct: 12889733 cttttttttaacaaaaaaaaaataacaaataaaaaa 12889768

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6434 tttgtatttttattttattt 6453
||||||| |||||
Sbjct: 13080664 tttgtatttttattttattt 13080683

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5566
||||||| ||||| |||||
Sbjct: 13082520 ctttttttttaaaaaaaaaaaaa 13082501

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaa 5567
||||||| ||||| |||||
Sbjct: 13098400 ttttttttttaaaaaaaaaaaaa 13098381

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaa 5567
||||||| ||||| |||||
Sbjct: 13853419 ttttttttttaaaaaaaaaaaaa 13853438

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 14112795 tttttttttaaaaaaaaaaaaaa 14112814

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaaca 5570
 |||||||||||||||||| ||||
Sbjct: 14624101 cttttttttaaaaaaaaaaaaaagaaca 14624124

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 15224404 tttttttttaaaaaaaaaaaaaa 15224423

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||||| ||||||||||||||||
Sbjct: 15446155 tttttttttaaaaaaaaaaaaaaaca 15446178

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 15621986 tttttttttaaaaaaaaaaaaaa 15622005

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgttt 6283
 | | | | | | | | | | | | | | | |
Sbjct: 16300369 cttttttttttgttttgttt 16300388

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 16966303 tttttttttaaaaaaaaaaaaaa 16966284

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4879 gtttttcttttatttttatt 4898
 | | | | | | | | | | | | | | | |
Sbjct: 17298425 gtttttcttttatttttatt 17298444

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 18530932 tttttttttaaaaaaaaaaaaaa 18530913

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

```
Query: 5329      ttgaaaaaaaaattataaaaaaat 5352
                ||||||||||||| |||||||||
Sbjct: 19516009 ttgaaaaaaaaataataaaaaaat 19515986
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6265      ttttttttttgttttgtttt 6284
                ||||||||||||| |||||||||
Sbjct: 20345948 ttttttttttgttttgtttt 20345967
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaa 5567
                ||||||||||||| |||||||||
Sbjct: 20936752 tttttttttaaaaaaaaaaaaa 20936771
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaa 5567
                ||||||||||||| |||||||||
Sbjct: 21536400 tttttttttaaaaaaaaaaaaa 21536419
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5545      aactttttttttaaaaaaaaaaaaa 5568
                ||||||| ||||||||||||| |||||||||
Sbjct: 22846774 aacttttctttaaaaaaaaaaaaa 22846797
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5995 atcgaaaaagaaaaagaaa 6014
|||||||
Sbjct: 23490028 atcgaaaaagaaaaagaaa 23490047

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5322 tatatTTTTgaaaaaaaaaat 5341
|||||||
Sbjct: 23930146 tatatTTTTgaaaaaaaaaat 23930165

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 25919042 ttttttttaaaaaaaaaaaaaa 25919061

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aactTTTTTTtaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 26876528 aactTTTctTTtaaaaaaaaaaaaaa 26876551

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 6276 ttttgTTTTaaaattgtttgtatTTTTatTTTTTTT 6311
|||||||
Sbjct: 29027874 ttttgTTTTattgttgtgtatTTTTatTTTTTTT 29027839

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 29324327 tttttttttaaaaaaaaaaaaaa 29324346

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 30075383 ctttttttttaaaaaaaaaaaaaa 30075364

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 3764 attaatgaaaattcaccaaacaaa 3787
 |||||
Sbjct: 30150728 attaatgagaattcaccaaacaaa 30150751

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 32464718 tttttttttaaaaaaaaaaaaaa 32464699

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 34166381 tttttttttaaaaaaaaaaaaaa 34166400

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaaa 5351
 |||||||
Sbjct: 35271787 aaaaaaaaaattataaaaaaaa 35271806

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5742 aaaacatcaaatttgctaaa 5761
 |||||||
Sbjct: 35705615 aaaacatcaaatttgctaaa 35705634

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5318 aaaatatatttttgaaaaaa 5337
 |||||||
Sbjct: 36849752 aaaatatatttttgaaaaaa 36849771

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Plus

Query: 5171 attagaaattttagtggttatatttagtgaaattaattatt 5210
 |||| | ||||| ||||| ||| | |||||
Sbjct: 38341195 attaaaaattttagtggttatatatagcaatattaattatt 38341234

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5546      actttttttttaaaaaaaaaa 5565
                |||||
Sbjct: 41966859 actttttttttaaaaaaaaaa 41966878
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6074      tatttacccaaaaaattatt 6093
                |||||
Sbjct: 41967637 tatttacccaaaaaattatt 41967656
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaa 5567
                |||||
Sbjct: 43010618 tttttttttaaaaaaaaaa 43010637
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaa 5567
                |||||
Sbjct: 45851114 tttttttttaaaaaaaaaa 45851133
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaa 5567
                |||||
Sbjct: 46184075 tttttttttaaaaaaaaaa 46184056
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5317 taaaatatatTTTTGAAAAAAAAATTATAAAA 5348
 ||||| ||| ||||| |||||
Sbjct: 48331864 taaaatatatTTTTAAAAAAAAATTCTAAAA 48331833

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 2499 atTTtaggggTTTTtTGactttatta 2526
 ||||| ||||| |||||
Sbjct: 49387821 atTTtaggggTTTTcatgtcttatta 49387848

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6487 attgaaattAAAAAAtatatattt 6510
 ||||| ||||| |||||
Sbjct: 49591318 attgaagttaAAAAAAtatatattt 49591341

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5024 taaattatTTTatgaataaa 5043
 ||||| ||||| |||||
Sbjct: 50582872 taaattatTTTatgaataaa 50582891

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6490 gaaattAAAAAAtatatatt 6509
 ||||| ||||| |||||
Sbjct: 51671531 gaaattAAAAAAtatatatt 51671512

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaa 5564
 |||||
Sbjct: 53102950 aactttttttttaaaaaaaaaa 53102969

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5567
 |||||
Sbjct: 53185460 tttttttttaaaaaaaaaa 53185479

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5318 aaaatatatttttgaaaaaaaaattataaaaa 5349
 |||| |
Sbjct: 53272434 aaaacatatttttgaaaaaaaaattataaaaa 53272465

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 6562 aattacaaacaatagaacaaaatatttaaatt 6593
 |||||
Sbjct: 54136798 aattacaaaaatacaacataatatttaaatt 54136767

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5328 tttgaaaaaaaaattataaa 5347
 |||||||
Sbjct: 54317006 tttgaaaaaaaaattataaa 54316987

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggtacaaaatttattat 5143
 ||||||| || |||||
Sbjct: 54821758 aaaaattaatcgtcacaaaatttattat 54821731

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 55735701 ttttttttttaaaaaaaaaaaaaa 55735682

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttttaaaaaaaaaaaaaa 5566
 |||||||
Sbjct: 55778645 ctttttttttttaaaaaaaaaaaaaa 55778626

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2581 aaataatatTTTTTTTcttt 2600
 |||||||
Sbjct: 55992029 aaataatatTTTTTTTcttt 55992048

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 6057      aataaaaaaaaaattaattat 6076
               |||||
Sbjct: 57031218 aataaaaaaaaaattaattat 57031199
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5559      aaaaaaaaaacaagtaataaaaaa 5582
               |||||
Sbjct: 57237575 aaaaaaaaaacaagttataaaaaa 57237598
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

```
Query: 1653      ccactaggtggggtcggctacatggatcaac 1684
               |||||
Sbjct: 57572126 ccactaggtgaggtcagctacgtgatcaac 57572095
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 4881      ttttcttttatttttatttt 4900
               |||||
Sbjct: 57869581 ttttcttttatttttatttt 57869600
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 6147      attacatttttttatacathtag 6170
               ||||
Sbjct: 58741626 attatatttttttatacathtag 58741649
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 58794993 ttttttttttgttttgtttt 58795012

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6270 tttttgttttgttttaaaat 6289
 |||||
Sbjct: 59185290 tttttgttttgttttaaaat 59185309

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5556 aaaaaaaaaaaaaacaagtaa 5575
 |||||
Sbjct: 59265746 aaaaaaaaaaaaaacaagtaa 59265727

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 60378871 ttttttttaaaaaaaaaaaaa 60378852

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5547 ctttttttaaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 60445866 ctttttttaaaaaaaaaaataaca 60445889

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 60731589 ctttttttttaaaaaaaaaaaaaa 60731608

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 61242915 ctttttttttaaaaaaaaaaaaaa 61242934

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 61331905 ctttttttttaaaaaaaaaaaaaa 61331924

Score = 40.1 bits (20), Expect = 6.4
Identities = 38/44 (86%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
 ||||| |||||
Sbjct: 61451994 attaatttttaaattaatacataaattatatatttttaaaataaaaa 61452037

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 61694026 ttttttttttgttttgtttt 61694045

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6294 tgtatttttattttttttgttatt 6317
 ||||||||||||||||||
Sbjct: 61982609 tgtatttttattttttttattatt 61982586

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||| ||||||||||
Sbjct: 62063659 ttttttttaagaaaaaaaaaaaaaaca 62063682

>[gb|CM000849.1](#) Glycine max chromosome 16, whole genome shotgun sequence
Length = 37397385

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||
Sbjct: 18565607 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
18565666

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 ||||||||||||||||||
Sbjct: 18565667 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
18565726

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 ||||||||||||||||||
Sbjct: 18565727 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
18565786

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 18565787 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
18565846

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 18565847 tccaccatcttctctacaataggcgctacttcaaccctctctctaatagcttcgtttcta
18565906

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 18565907 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
18565966

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 18565967 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
18566026

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 18566027 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18566086

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

|||||
Sbjct: 18566087 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
18566146

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 18566147 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
18566206

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 18566207 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
18566266

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362
|||||
Sbjct: 18566267 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
18566326

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
|||||
Sbjct: 18566327 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18566386

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 18566387 tctgcaaaaagcatgcatctcggcgctatctcttg 18566421

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 24855494 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
24855435

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 24855434 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
24855375

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 24855374 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
24855315

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882
|||||
Sbjct: 24855314 ctctcactacagagtctatcggtcttctctctacatgcccacacctaagtctattt
24855255

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 24855254 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
24855195

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 24855194 attttatcctgtcgagtcttaccacacatctaccgcaacatcctcatctccgctacacct
24855135

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 24855134 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
24855075

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 24855074 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
24855015

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 24855014 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
24854955

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 24854954 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
24854895

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 24854894 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
24854835

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 24854834 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
24854775

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 24854774 ctccaagttttccaacctctcattcaactcctccctcgagtcctccaaggaggactatgtca
24854715

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||||||||||||||||||||||||||||
Sbjct: 24854714 tctgcaaaaagcatgcatctcggcgctatctcttg 24854680

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702
||||||||||||||||||||||||||||||||
Sbjct: 29319642 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
29319583

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
||||||||||||||||||||||||||||||||
Sbjct: 29319582 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
29319523

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
||||||||||||||||||||||||||||||||
Sbjct: 29319522 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
29319463

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
||||||||||||||||||||||||||||||||
Sbjct: 29319462 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
29319403

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942
||||||||||||||||||||||||||||||||
Sbjct: 29319402 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
29319343

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
||||||||||||||||||||||||||||||||
Sbjct: 29319342 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29319283

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 29319282 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccgat
29319223

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 29319222 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
29319163

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 29319162 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
29319103

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 29319102 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
29319043

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 29319042 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactca
29318983

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 29318982 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
29318923

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 29318922 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29318863

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 29318862 tctgcaaaaagcatgcatctcggcgctatctcttg 29318828

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 7505299 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
7505358

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 7505359 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
7505418

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822

|||||
Sbjct: 7505419 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
7505478

Query: 1823 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 7505479 ctctctactatagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
7505538

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
1942

|||||
Sbjct: 7505539 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
7505598

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 7505599 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
7505658

Query: 2003 actttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 7505659 actttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccggt
7505718

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 7505719 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataat
7505778

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccctt
2182

|||||
Sbjct: 7505779 acccccgatgattttctccatttcatccatcctgcttgaatgcatgattcacatccctt
7505838

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 7505839 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
7505898

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 7505899 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
7505958

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362

|||||
Sbjct: 7505959 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
7506018

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 7506019 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
7506078

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 7506079 tctgcaaaaagcatgcatctcggcgctatctcttg 7506113

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 212761 aacgccttatcccactaggtggggctcggctacatggatcaacttctgccataatgttcta
212702

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 212701 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
212642

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 212641 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
212582

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 212581 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
212522

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 212521 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
212462

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 212461 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
212402

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 212401 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
212342

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 212341 cttactgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
212282

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 212281 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
212222

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 212221 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
212162

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 212161 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
212102

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 212101 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
212042

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 212041 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
211982

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 211981 tctgcaaaaagcatgcatctcggcgactatctcttg 211947

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 22778720 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
22778661

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 22778660 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
22778601

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 22778600 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgatctact
22778541

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 22778540 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
22778481

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 22778480 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
22778421

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 22778420 attttatcctgtcaagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
22778361

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 22778360 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
22778301

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 22778300 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
22778241

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 22778240 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
22778181

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 22778180 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
22778121

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 22778120 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 22778061

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 22778060 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 22778001

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 22778000 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
 22777941

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 22777940 tctgcaaaaagcatgcatctcggcgctatctcttg 22777906

Score = 1576 bits (795), Expect = 0.0
 Identities = 807/811 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 33820749 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 33820808

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 33820809 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 33820868

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 33820869 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 33820928

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

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 Sbjct: 33820929 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 33820988

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 33820989 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
33821048

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 33821049 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
33821108

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 33821109 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
33821168

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 33821169 cttaccgcagtcgataaaaactttctcttagcttgatcggtacctttgcatcacataac
33821228

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 33821229 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
33821288

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 33821289 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
33821348

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 33821349 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
33821408

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 33821409 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
33821468

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 33821469 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
33821528

Query: 2423 tctgcaaaaagcatgcatctcggcgctatct 2453

|||||
Sbjct: 33821529 tctgcaaaaagcatgcatctcggcgctatct 33821559

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 932248 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
932189

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 932188 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
932129

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 932128 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgatctact
932069

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

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Sbjct: 932068 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
932009

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 932008 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
931949

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 931948 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
931889

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 931888 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
931829

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
2122

|||||
Sbjct: 931828 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
931769

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 931768 acccccgctgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
931709

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 931708 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
931649

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 931648 ataatatggtctcctattttcacctctgagttagaaaccctcattcttttgttgaaactta
931589

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 931588 catttcatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
931529

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 931528 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
931469

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 931468 tctgcaaaagagcatgcatctcggcgctatctcttg 931434

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 26868835 aacgccttatcccactaggtggggtcggctacatggatcaacttccgtcataatgttcta
26868776

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 26868775 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
26868716

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 26868715 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
26868656

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882
|||||
Sbjct: 26868655 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
26868596

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
| |||||
Sbjct: 26868595 ttcaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
26868536

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 26868535 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacatct
26868476

Query: 2003 actttattctcatgttgggtctttgaccgcccacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 26868475 actttattctcatgttgggtctttgaccgcccacattctgttccgtacaaaatcgccgggt
26868416

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 26868415 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 26868356

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

|||||
 Sbjct: 26868355 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 26868296

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 26868295 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
 26868236

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 26868235 ataatatggtctcctattttcacctctgagttagaaaccctcatttcttttgttgaactta
 26868176

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 26868175 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 26868116

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 26868115 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 26868056

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 26868055 tctgcaaaaagcatgcatcttggcgctatctcttg 26868021

Score = 1536 bits (775), Expect = 0.0
 Identities = 805/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccct
2182

Sbjct: 24091459 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
24091400

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 24091399 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
24091340

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 24091339 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
24091280

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 24091279 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
24091220

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 24091219 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
24091160

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 24091159 tctgcaaaaagcatgcatctcggcgactatctcttg 24091125

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 5069511 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgtcataatgttcta
5069452

Query: 1703 tcaagtaccataacttctatccaaaccatttaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 5069451 tcaagtaccataacttctatccaaattattaagttcagatcctttttgataacctctctt
5069392

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 5069391 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
5069332

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 5069331 ctctcactacaaagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5069272

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 5069271 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
5069212

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgtacacct
2002

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Sbjct: 5069211 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgtacacct
5069152

Query: 2003 actttattctcatgttggtccttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 5069151 actttattctcatgtaggtccttgatcgccccaacattctgttccgtacaaaatcgccggt
5069092

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 5069091 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
5069032

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 5069031 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
5068972

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 5068971 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5068912

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 5068911 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
5068852

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 5068851 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgt
5068792

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 5068791 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
5068732

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 5068731 tctgcaaaaagcatgcatctcggcgctatctcttg 5068697

Score = 1521 bits (767), Expect = 0.0
Identities = 803/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 21619128 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
21619069

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 21619068 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
21619009

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 21619008 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
21618949

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtcatttt
1882

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Sbjct: 21618948 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
21618889

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 21618888 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
21618829

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 21618828 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
21618769

Query: 2003 actttattctcatggttggtctcttgaccgccccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 21618768 actttagtctcatggttggtctcttgaccgccccaacattctgttcggaacaaaatcgccggt
21618709

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 21618708 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
21618649

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 21618648 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
21618589

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 21618588 tcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
21618529

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 21618528 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
21618469

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 21618468 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
21618409

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 21618408 ctccaagtttccaacctctcattcaactcctccctcgactctccaaaggaggactatgtca
21618349

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 21618348 tctgcaaaaagcatgcatctcggcgctatctcttg 21618314

Score = 1507 bits (760), Expect = 0.0
Identities = 799/812 (98%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctgggtacatggatcaacttccgccataatgttctatca
1705

|||||
Sbjct: 6038813 gccttatcccactaggtggggctgggtacatggatcaacttccaccataatgttctatca
6038872

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

|||||
Sbjct: 6038873 agtaccatacttctatccaaatcattaagtctgagatcctttttgataacctctcttata
6038932

Query: 1766 gtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctactctc
1825

|||||
Sbjct: 6038933 gtctttttgggtcttctctgctcgaattgtttgtcttctctttatctgggtctactctc
6038992

Query: 1826 ctccactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctatcttcc
1885

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Sbjct: 6038993 ctccactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctatcttcc
6039052

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaatt
1945

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Sbjct: 6039053 accatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaatt
6039112

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
2005

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Sbjct: 6039113 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
6039172

Query: 2006 ttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggtctt
2065

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Sbjct: 6039173 ttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggtctt
6039232

Query: 2066 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
2125

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Sbjct: 6039233 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
6039292

Query: 2126 cccgatgctttttctccatttcacatccatcctgcttgaatgcgatgattcacatccccttca
2185

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Sbjct: 6039293 cccgatgctttttctccatttcacatccatcctgcttgaatgcgatgattcacatccccttca
6039352

Query: 2186 atttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgagggata
2245

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Sbjct: 6039353 atttctccatcatcctgtattatagatccaagatatattaaaccgtgtgacttgagggata
6039412

Query: 2246 atatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaacttacat
2305

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Sbjct: 6039413 atatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaacttacat
6039472

Query: 2306 tccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctc
2365

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Sbjct: 6039473 tccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgtctc
6039532

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
2425

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Sbjct: 6039533 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
6039592

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 6039593 gcaaaaagcatgcatctcggcgctatctcttg 6039624

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 31184881 aacgccttatcccactatgtggggtcggctacatggatcaacttccgccataatgttcta
31184822

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 31184821 tcaagtaccatacttctatccaaatcattaagttcgaggctcctttttgataacctctctt
31184762

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 31184761 atagtctttttgggtcttctctgcctcgaattatttgcttctctccatctgggtctact
31184702

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
1882
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Sbjct: 31184701 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctatct
31184642

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
| |||||
Sbjct: 31184641 ttcaccatcttctctacaataggcgctactccaaccctctctctaataagtttcgtttcta
31184582

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 31184581 attttatcctgtcgagtcttaccacacatccacctcaacatcctcatctccgctacacct
31184522

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 31184521 actttattctcctggttggtctcttgaccgcccacattctgttcggtacaaaatcgccggt
31184462

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 31184461 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
31184402

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

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Sbjct: 31184401 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
31184342

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 31184341 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
31184282

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 31184281 ataatatggtctcctattttcacctctgagttaggaaccctccttcttttgttgaactta
31184222

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 31184221 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
31184162

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 31184161 ctccctagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
31184102

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 31184101 tctgcaaaaagcatgcatctcggcgctatctcttg 31184067

Score = 1481 bits (747), Expect = 0.0
Identities = 799/815 (98%), Gaps = 1/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 18702163 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
18702222

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 18702223 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
18702282

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 18702283 atagtctttttgggtcttcctctgcctcgaattgtttgccttttctccatctgggtctact
18702342

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 18702343 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
18702402

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 18702403 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtccatttcta
18702462

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 18702463 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
18702522

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 18702523 actttagtctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
18702582

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 18702583 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
18702642

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 18702643 acccccgatgcttttctccatttcatccatcctacttgaatgcgatgattcacatccct
18702702

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 18702703 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
18702762

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 18702763 ataatatggtctcctattttcacctctgagttag-aaccctcctacttttggtgaactta
18702821

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18702822 cattccatatactcctatttgcttctgcttaggcgaaagtcatgtgtttctagagctcgt
18702881

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18702882 ctccaagtttctaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18702941

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 18702942 tctacaaaaagcatgcatctcggcgctatctcttg 18702976

Score = 1457 bits (735), Expect = 0.0
Identities = 744/747 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 19256396 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
19256455

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 19256456 tcaagtaccatacttctatccaaatcattaatttcgagatcctttttgataacctctctt
19256515

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 19256516 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
19256575

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 19256576 ctctcactacagagtctaccggttttctctctacatgcccaaaccacctaagtctattt
19256635

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 19256636 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
19256695

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 19256696 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19256755

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 19256756 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
19256815

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 19256816 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
19256875

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 19256876 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
19256935

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 19256936 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
19256995

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 19256996 ataatatgatctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
19257055

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 19257056 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
19257115

Query: 2363 ctccaagtttccaacctctcattcaac 2389

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Sbjct: 19257116 ctccaagtttccaacctctcattcaac 19257142

Score = 1433 bits (723), Expect = 0.0
Identities = 792/815 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 18531600 aacgccttatcccactagatggggtcggctacatggatcaatttccgctcataatgttcta
18531541

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 18531540 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
18531481

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 18531480 atagtctttttgagtcttctctgcctcgaattgtttgccttctctccatctgggtctact
18531421

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 18531420 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
18531361

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 18531360 tccaccatcttctctacaataggcgctactccaaccctctctctaatagctccgtttcta
18531301

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 18531300 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacactt
18531241

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 18531240 acttttagtctcatggttggtctcttgaccgtccaacattctgttccgtacaaaatcgccggt
18531181

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 18531180 cttaccgtagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18531121

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 18531120 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
18531061

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 18531060 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
18531001

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 18531000 ataatatggtctcctattttcacctctgagttagataccctccaacttttgctgaactta
18530941

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18530940 cattccatatactccgatttgcttctgcttaggcgaaagtcagtgtgtttctagagctcgt
18530881

Query: 2363 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18530880 ctccaagttttccaacctctcgttcaactcctccctcgactctccaaggaggactatgtca
18530821

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 18530820 tctgcaaaaagcatgcatctcggcgactatctcttg 18530786

Score = 1382 bits (697), Expect = 0.0
Identities = 703/705 (99%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
1705

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Sbjct: 12643131 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
12643190

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

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Sbjct: 12643191 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
12643250

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825

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Sbjct: 12643251 gtctttttgggtcttcctctgcctcaaattgtttgttttctctccatctgggtctactctc
12643310

Query: 1826 ctccactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattttcc
1885

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Sbjct: 12643311 ctccactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattttcc
12643370

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagtctcggttctaat
1945

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Sbjct: 12643371 accatcttctctacaataggcgctactccaaccctctctctaatagtctcggttctaat
12643430

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
2005

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Sbjct: 12643431 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
 12643490

Query: 2006 ttatttctcatggttggtccttgaccgcccacattctgttccgtacaaaatcgccggtctt
 2065

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 Sbjct: 12643491 ttatttctcatggttggtccttgaccgcccacattctgttccgtacaaaatcgccggtctt
 12643550

Query: 2066 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
 2125

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 Sbjct: 12643551 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
 12643610

Query: 2126 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
 2185

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 Sbjct: 12643611 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
 12643670

Query: 2186 atttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
 2245

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 Sbjct: 12643671 atttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
 12643730

Query: 2246 atatggtctcctattttccctctgagttagaaaccctccttcttttgttgaacttacat
 2305

|||||
 Sbjct: 12643731 atatggtctcctattttccctctgagttagaaaccctccttcttttgttgaacttacat
 12643790

Query: 2306 tccatatactccgatttgcttctgcttaggcgaaagccatgtggt 2350
 |||||

Sbjct: 12643791 tccatatactccgatttgcttctgcttaggcgaaagccatgtggt 12643835

Score = 1306 bits (659), Expect = 0.0
 Identities = 689/699 (98%)
 Strand = Plus / Plus

Query: 1759 tcttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtc
 1818

|||||
 Sbjct: 28938409 tcttatagtctttttgggtcttcctctgcctcgaattgtttgtcttccctctatctggtc
 28938468

Query: 1819 tactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtct
1878

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Sbjct: 28938469 tactctcctcactacagagtctaccagtcttctctttacatgcccaaaccacctaagtct
28938528

Query: 1879 attttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggt
1938

|||||
Sbjct: 28938529 attttccaccatcttctctacaatagacgctactccaaccctctctctaataagcttcggt
28938588

Query: 1939 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
1998

|||||
Sbjct: 28938589 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
28938648

Query: 1999 acctactttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgc
2058

|||||
Sbjct: 28938649 acctactttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgc
28938708

Query: 2059 cggctcttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcaca
2118

|||||
Sbjct: 28938709 cggctcttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcaca
28938768

Query: 2119 taacacccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatc
2178

|||||
Sbjct: 28938769 taacacccccgatgcttttctccatttcacatcctgcttgaatgcgatgattcacatc
28938828

Query: 2179 cccttcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttg
2238

|||||
Sbjct: 28938829 cccttcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttg
28938888

Query: 2239 agggataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaa
2298

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Sbjct: 28938889 agggataatatggtctcctattttccacctctgagttagaaactcttcttcttttgttgaa
28938948

Query: 2299 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
2358

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Sbjct: 28938949 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
28939008

Query: 2359 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
2418

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Sbjct: 28939009 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
28939068

Query: 2419 gtcacatgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 28939069 gtcacatgcaaaaacatgcatctcggcgctatctcttg 28939107

Score = 1273 bits (642), Expect = 0.0
Identities = 684/698 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 11635166 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
11635107

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 11635106 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
11635047

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 11635046 atagtctattttgggtcttcctctatctcgaattgtttgccttctctccatctgggtctact
11634987

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 11634986 ctctcactacagagtctatcggtcttctctctacatgcccacacctaagtctactt
11634927

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 11634926 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 11634867

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

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 Sbjct: 11634866 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
 11634807

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

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 Sbjct: 11634806 actttattctcatggttgactccttgaccgccaacattctgttccgtacaaaatcgccggt
 11634747

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 11634746 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 11634687

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 2182

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 Sbjct: 11634686 acccccaatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 11634627

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242

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 Sbjct: 11634626 tcaatttctccatcatcctgtattacagaccaagatatattaaatcgtgtgacttgaggg
 11634567

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
 2302

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 Sbjct: 11634566 ataatatggtctcctattttcacctctaagttagaaaccctccttcttttgttgaaactta
 11634507

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaa 2340

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 Sbjct: 11634506 cattccatatactccgatttgcttctgcttaggcgaaa 11634469

Score = 1166 bits (588), Expect = 0.0
 Identities = 621/632 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 35426006 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
35426065

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 35426066 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
35426125

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 35426126 atagtctttttgggtcttcctctgtctcgaattgtttgccttctctccatctgggtctact
35426185

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 35426186 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
35426245

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 35426246 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcatttcta
35426305

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 35426306 attttatcctgtcgagtcttaccacacatctaccgcaacatcctcatctccgctacacct
35426365

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 35426366 actttattctcatgttgggtctttaactgccaacattctgttccgtacaaatcgccggt
35426425

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 35426426 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
35426485

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 19927377 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
 19927318

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

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 Sbjct: 19927317 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 19927258

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

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 Sbjct: 19927257 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 19927198

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 19927197 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 19927138

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 2182

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 Sbjct: 19927137 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 19927078

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 19927077 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
 19927018

Query: 2243 ataa 2246
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Sbjct: 19927017 ataa 19927014

Score = 979 bits (494), Expect = 0.0
 Identities = 500/502 (99%)
 Strand = Plus / Minus

Query: 1956 gagtcttaccacacatccaccgcaacatcctcatctccgctacacctactttatttctcat
 2015

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 Sbjct: 21607402 gagtcttaccacacatccaccgcaacatcctcatctccgctacacctactttatttctcat
 21607343

Query: 2016 2075 gttggctcttgaccgcccacattctgttcggtacaaaatcgccggtcttaccgcagtcc

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Sbjct: 21607342 21607283 gttggctcttgaccgcccacattctgttcggtacaaaatcgccggtcttaccgcagtcc

Query: 2076 2135 gataaaactttcccttttagcttgatcggtacctttgcatcacataacacccccgatgctt

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Sbjct: 21607282 21607223 gataaaactttcccttttagcttgatcggtacctttgcatcacataacacccccgatgctt

Query: 2136 2195 ttctccatttcatccatcctgcttgaatgcatgattcacatccccttcaatttcccat

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Sbjct: 21607222 21607163 ttctccatttcatccatcctgcttgaatgcatgattcacatccccttcaatttctccat

Query: 2196 2255 catcctgtattacagaccaagatatttaaaccgtgtgacttgagggataaatatgggtctc

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Sbjct: 21607162 21607103 catcctgtattacagaccaagatatttaaaccgtgtgacttgagggataaatatgggtctc

Query: 2256 2315 ctattttcacctctgagttagaaaccctccttcttttggtgaacttacattccatatact

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Sbjct: 21607102 21607043 ctattttcacctctgagttagaaaccctccttcttttggtgaacttacattccatatact

Query: 2316 2375 ccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttcca

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Sbjct: 21607042 21606983 ccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctccaagtttcca

Query: 2376 2435 acctctcattcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaagca

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Sbjct: 21606982 21606923 acctctcattcaactcctccctcgactctccaaggaggactatgtcatctgcaaaaagca

Query: 2436 2457 tgcattctggcgctatctcttg
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Sbjct: 21606922 21606901 tgcattctggcgactatctcttg

Score = 940 bits (474), Expect = 0.0
Identities = 486/490 (99%)
Strand = Plus / Plus

Query: 1968 acatccaccgcaacatcctcatctccgctacacctactttattctcatgttggtccttga
2027

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Sbjct: 34820784 acatccaccgcaacatcctcatctccgctacacctactttattctcatgttggtccttga
34820843

Query: 2028 ccgcccacattctgttccgtacaaaatcgccggtcttaccgcagtcggataaaaactttc
2087

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Sbjct: 34820844 ccgcccacattctgttccgtacaaaatcgccggtcttaccgcagtcggataaaaactttc
34820903

Query: 2088 cctttagcttgatcggtacctttgcatcacataacacccccgatgcttttctccatttca
2147

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Sbjct: 34820904 cctttagcttgatcggtacctttgcatcacataacacccccgatgcttttctccatttca
34820963

Query: 2148 tccatcctgcttgaatgcatgattcacatccccttcaatttccccatcatcctgtatta
2207

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Sbjct: 34820964 tccatcctgcttgaatgcatgattcacatccccttcaatttctccatcatcctgtatta
34821023

Query: 2208 cagacccaagatatttaaaccgtgtgacttgagggataaatatggtctcctattttcacct
2267

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Sbjct: 34821024 cggatccaagatatttaaaccgtgtgacttgagggataaatatggtctcctattttcacct
34821083

Query: 2268 ctgagttagaaaccctccttcttttggtgaacttacattccatatactccgatttgcttc
2327

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Sbjct: 34821084 ctgagttagaaaccctccttcttttggtgaacttacattccatatactccgatttgcttc
34821143

Query: 2328 tgcttaggcgaaagccatgtgttctagagctcgtctccaagtttccaacctctcattca
2387

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Sbjct: 34821144 tgcttaggcgaaaacctatgtgttctagagctcgtctccaagtttccaacctctcattca
34821203

Query: 2388 actcctccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcg
2447

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Sbjct: 34821204 actcctccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcg
34821263

Query: 2448 ctatctcttg 2457
|||||||
Sbjct: 34821264 ctatctcttg 34821273

Score = 831 bits (419), Expect = 0.0
Identities = 434/439 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 4107446 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
4107505

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 4107506 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
4107565

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822
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Sbjct: 4107566 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
4107625

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 4107626 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
4107685

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcta
1942
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 4107686 tccaccatcttctctacaataggcgctactccaacccttctctaatagtctcggttcta
4107745

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 4107746 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
4107805

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttcggtacaaaatcgccggt
 2062
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 4107806 actttattctcatggttggtccttgaccgccaacattctgttcggtacaaatcgccggt
 4107865

Query: 2063 cttaccgcagtcgataaa 2081
 ||||||||||||||||
 Sbjct: 4107866 cttaccgcagtcgataaa 4107884

Score = 825 bits (416), Expect = 0.0
 Identities = 455/468 (97%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
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 Sbjct: 5665659 aacgccttatcccactaggtggggctcggctacatggatcaacttccatcataatgttcta
 5665718

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
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 Sbjct: 5665719 tcaagtaccataacttttatccaaatcattaagttcgagatccttcttgataacctctctt
 5665778

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
 1822
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 Sbjct: 5665779 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgatctact
 5665838

Query: 1823 ctctctactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 5665839 ctctctactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 5665898

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttcta
 1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 5665899 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttcta
 5665958

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

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Sbjct: 5665959 attttatcctgtcgcgagtcttaccacacatccaccgcaacatcctcatctccgttacacct
5666018

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 5666019 actttagtctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgtcggt
5666078

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtaccttt 2110

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Sbjct: 5666079 cttaccgcagtcgcgataaaaactttccctttaacttgatcggtaccttt 5666126

Score = 819 bits (413), Expect = 0.0
Identities = 434/441 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 4476993 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
4476934

Query: 1703 tcaagtaccatacttctatccaaaccattaatctcgagatcctttttgataacctctctt
1762

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Sbjct: 4476933 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataatctctctt
4476874

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 4476873 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
4476814

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 4476813 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
4476754

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcggtttcta
1942

|||||
Sbjct: 4476753 tccaccatcttctctacaataggcgctactccaaccctcttctctaatagtttcggtttcta
4476694

Query: 1943 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 4476693 attttatcctgtcgagtcctaccacacatccaccgcaacatcctcatctccgcgacacct
4476634

Query: 2003 actttattctcatgttggtccttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 4476633 actttgttctcatgttggtccttgaccgccccaacattctgttccgtacaaaatcgccggt
4476574

Query: 2063 cttaccgcagtcgataaaaac 2083

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Sbjct: 4476573 cttaccgcagtcgataaaaac 4476553

Score = 817 bits (412), Expect = 0.0

Identities = 439/448 (97%)

Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 24724085 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
24724144

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 24724145 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
24724204

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||
Sbjct: 24724205 ataatctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
24724264

Query: 1823 ctctcactacagagtcctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 24724265 ctctcactacagagtcctaccggtcttctctctacatgccccaaaccacctaagtctattt
24724324

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 24724325 tccaccatcttctctacaataggcactactccaaccctctctctaataagctccgtttcta
24724384

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 24724385 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccactacacct
24724444

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 24724445 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
24724504

Query: 2063 cttaccgcagtcgcgataaaaactttccct 2090
|||||
Sbjct: 24724505 cttatcgcagtcgcgataaaaactttccct 24724532

Score = 817 bits (412), Expect = 0.0
Identities = 424/428 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 25695682 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
25695741

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 25695742 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
25695801

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 25695802 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
25695861

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
1882

|||||

Sbjct: 25695862 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
25695921

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 25695922 tccaccatcttctctacaatagacgctactccaaccctctctctaatagtttcgtttcta
25695981

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 25695982 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25696041

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 25696042 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
25696101

Query: 2063 cttaccgc 2070
|||||

Sbjct: 25696102 cttaccgc 25696109

Score = 734 bits (370), Expect = 0.0
Identities = 400/410 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 311684 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
311743

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 311744 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
311803

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 311804 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
311863

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 311864 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 311923

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||| | |||||
 Sbjct: 311924 tccaccatcttctctacaataggcgctactccaaccctctctctaataagctccatttcta
 311983

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 311984 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 312043

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaa 2052
 ||||| ||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 312044 actttagtctcatggttggtctcttgaccgccaacattctgttccgtacaa 312093

Score = 724 bits (365), Expect = 0.0
 Identities = 398/409 (97%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 |||||||||||||||||||| | ||||||||||||||||||||||||||||||||||||
 Sbjct: 35001282 aacgccttatccactaggtgggatcggctacatggatcaacttccgccataatgttcta
 35001341

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||||||||||||||||| | |||| | |||||||||||| | | ||||||||
 Sbjct: 35001342 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttatcacctctctt
 35001401

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
 |||||||||||||||||||| | |||| | |||||||||||| | | ||||||||
 Sbjct: 35001402 atagtctttttgggtcttctctgcctcgaattgtttgtctactctccatctgggtctact
 35001461

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

Sbjct: 35001462 |||||
 35001521 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

Sbjct: 35001522 |||||
 35001581 tccaccatcttctctacaataggcgctacttcaaccctctctctaataagcttcgtttcta

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

Sbjct: 35001582 |||||
 35001641 attttatcctgtcgagtcttaccacacatctaccgcaacattctcatctccactacacct

Query: 2003 actttattctcatgttggtcttggaccgccaacattctgttccgtaca 2051

Sbjct: 35001642 |||||
 actttattctcatgttgactcttgaccgccaacattctgttccgtaca 35001690

Score = 609 bits (307), Expect = e-171
 Identities = 335/343 (97%), Gaps = 1/343 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

Sbjct: 34820448 |||||
 34820507 aacgccttatcccattaggtggggctcggctacatggatcaacttctgccataatgttcta

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

Sbjct: 34820508 |||||
 34820567 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 1822

Sbjct: 34820568 |||||
 34820626 atagtctttttgg-tcttctctgcctcgaattgtttgccttcgctccatctgatctact

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

Sbjct: 34820627 |||||
 34820686 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 34820687 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
34820746

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcc 1985

|||||
Sbjct: 34820747 attttatcctgtcgagtcttaccacacatccaccgcaacatcc 34820789

Score = 567 bits (286), Expect = e-158
Identities = 319/330 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 5886498 aacgccttatcccactaggtgaggtcggctacatggatcaacttccgtcataatgtttta
5886557

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 5886558 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
5886617

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 5886618 atagtctttttgggtcttcctctaccttgaattgtttgtttctctccatctgggtctact
5886677

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 5886678 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5886737

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 5886738 tccaccatcttctctacaataggcgctattccaaccctctctctaataagcttcgtttcta
5886797

Query: 1943 attttatcctgtcgagtcttaccacacatc 1972

|||||
Sbjct: 5886798 attttatcctgtcgcgagtcttaccacccatc 5886827

Score = 537 bits (271), Expect = e-149
Identities = 274/275 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 2750101 aacgccttatctcactaggtggggtcggctacatggatcaacttccgccataatgttcta
2750160

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 2750161 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
2750220

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 2750221 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
2750280

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 2750281 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
2750340

Query: 1883 tccaccatcttctctacaataggcgctactccaac 1917

|||||
Sbjct: 2750341 tccaccatcttctctacaataggcgctactccaac 2750375

Score = 365 bits (184), Expect = 8e-98
Identities = 193/196 (98%)
Strand = Plus / Plus

Query: 1722 ccaaaccattaatttcgagatcctttttgataacctctcttatagtctttttgggtcttc
1781

|||||
Sbjct: 35354924 ccaaaccattaatttcgagatcctttttgataacctctcttatagtctttttgggtcttc
35354983

Query: 1782 ctctgcctcgaattgtttgtcttctctccatctgggtctactctcctcactacagagtcta
1841
|||||
Sbjct: 35354984 ctctgcctcgaattatttgtcttctctccatctgggtctactctcctcactacagagtcta
35355043

Query: 1842 ccggtcttctctctacatgcccaaaccacctaagtctattttccaccatcttctctacaa
1901
|||||
Sbjct: 35355044 ccggtcttctctctacatgcccaaaccacctaagtctattttccaccatcttctctacaa
35355103

Query: 1902 taggcgctactccaac 1917
|||||
Sbjct: 35355104 taggcgctactccaac 35355119

Score = 341 bits (172), Expect = 1e-90
Identities = 320/365 (87%), Gaps = 7/365 (1%)
Strand = Plus / Minus

Query: 6304 ttttttttgttattaattgtctatatttgtgttctgtttaaattgaaaacaatattattt
6363
|||||
Sbjct: 5467386 ttttttgtgttattaattgtctatatttatgttttgtttaaactcaaaataatattattt
5467327

Query: 6364 ttcatatgttggttaattcctaatttcttatgcatattttatgttttatcatttttt-aag
6422
|
Sbjct: 5467326 tacatatgttggtg---ttaaattttt-tgcatattttatgttttattatatttgaag
5467272

Query: 6423 agttgaaatcctttgtatttttattttatttgattattataataacataaattaacaacaa
6482
|||||
Sbjct: 5467271 agttgaaatcatttgtattttcatttaattttattattaaaatacataaattaatcaacaa
5467212

Query: 6483 cttaattgaaattaaaaaatatatatttaactgacaagttgacttgaactaaaatattta
6542
|||||
Sbjct: 5467211 cttaattaaaattaaaaaa-atatatgtgaccaacaagttgaattaaactaaaatattta
5467153

Query: 6543 aattacaaaatagatatgaaattacaaacaatagaacaaaatattttaatttgaaataat
6602

||||| ||||||||| ||||||||| ||||||||| ||||||||| |||
Sbjct: 5467152 aattataaaatagatataaaattacaaacaatagaacaacatatTTaaatttgaaacaat
5467093

Query: 6603 acaacaaaaattttaaaatacaaaacaatatggcataaaattaatgTTgTTggcctgagcc
6662

| ||| ||||||||| ||||||||| ||| ||||||| ||| ||||||| |||
Sbjct: 5467092 ataacgaaaattttaaaatacaaaacaacatgacataaaacttaccattgTTggattgagcc
5467033

Query: 6663 tacac 6667

|||||
Sbjct: 5467032 tacac 5467028

Score = 280 bits (141), Expect = 4e-72
Identities = 199/217 (91%), Gaps = 1/217 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgTTcta
1702

||||||||| ||||||||| ||||||||| ||||||||| ||||||||| |||
Sbjct: 21608207 aacgccttatcccactaggtggggtcggctacatggatcaacttccgTcataatgTTcta
21608148

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

||||||||| ||||||||| ||||||| ||||||||| ||||||||| |||
Sbjct: 21608147 tcaagtaccatacttctatccaaatcattaagttcgagatcctatttgataaacctctctt
21608088

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgTTtgTcttctctccatctgggtctact
1822

||||||||| ||||||||| ||||||||| ||||||||| || ||| |||
Sbjct: 21608087 atagtctttttgggtcttcctctgcacTcgaattgTTtgTcatcactactagaggtctact
21608028

Query: 1823 ctctc-actacagagtctaccggtcttctctctaca 1858

||||| ||| | ||||||||| |||
Sbjct: 21608027 ctctctgctaccCaatctaccggtcttctcactaca 21607991

Score = 268 bits (135), Expect = 1e-68
Identities = 264/303 (87%), Gaps = 8/303 (2%)
Strand = Plus / Minus

Query: 6363 tttcatatgttgtaaattcttaatttcttatgcatattttatgttttatcatttttt-aa
6421

Query: 6422 gagttgaaatcctttgtatTTTTatttgattattataatacataattaacaaca
6481

Query: 6482 acttaattgaaattaaaaatatatatttaactgacaagttgacttg-aactaaaatatt
6540

Query: 6541 taaattacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaata
6600

```
Query: 6601      ata 6603
      |||
Sbjct: 6693725  ata 6693723
```

Query: 1644 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
1703

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctta
1763

Sbjct: 850859 caagtaccatacttctatccaaaccattgagttcgagatcctttttgataacctctctta
850800

Query: 1764 tagtctttttgggtcttcct 1783
|||||
Sbjct: 850799 tagtctttttgggtcttcct 850780

Score = 222 bits (112), Expect = 8e-55
Identities = 200/228 (87%), Gaps = 1/228 (0%)
Strand = Plus / Plus

Query: 6393 tgcataattttatgtttt-atcattttttaagagttgaaatcctttgtatttttattttat
6451
|||||
Sbjct: 6693299 tgcataattttatgttttatcatttttgaagaattaaaattttgtatatatttttattttat
6693358

Query: 6452 ttgattattataatacataattaacaacaacttaattgaaattaaaaaatatatattta
6511
|||||
Sbjct: 6693359 ttgattattaaaatacataattaatcaataacttaactgaaattaaaaaatcatattta
6693418

Query: 6512 actgacaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaac
6571
|| |||||
Sbjct: 6693419 accaacaagttgaattaaactaaaatatttaaatgaagaaatagaaacaaaattacaaat
6693478

Query: 6572 aatagaacaaaatatttaaatgtgaataataacaacaaaatttttaa 6619
|||||
Sbjct: 6693479 aatagaataaaaatatttaaatgtgaataataacaacaaaatttttaa 6693526

Score = 218 bits (110), Expect = 1e-53
Identities = 229/266 (86%), Gaps = 12/266 (4%)
Strand = Plus / Plus

Query: 4762 tgttaatctttttattgataccgtaa-taataattaataagtaataattttttatcaata
4820
|||||
Sbjct: 24099848 tgttaatatttttattggtactgtaagtaacaattaatgagcaacaactctttattaata
24099907

Query: 4821 tcatagctttgtttagaaaaaagagatttaataattaatagctaaagaaatccaaaagt
4880
||||| ||||||||||||| ||||||||| || ||||||||||||| |||||||
Sbjct: 24099908 tcatagcattgtttagaaaaa-gagatttaatagttgatagctaaagaaacccaaaagt
24099966

Query: 4881 ttttcttttattt-----ttattttgttcctattcaatttctaattttgtcattttt
4931
||||||||||| || ||||||| || ||||||||||||||||| || |||
Sbjct: 24099967 ttttcttttatttctatttctctttatttttttcttattcaatttctaattttgtcttctt
24100026

Query: 4932 t-tcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgattatt
4990
| ||||||||||||| ||||||||||||||||| || || |||||||||||||||||
Sbjct: 24100027 tctcactgtctctcacttctctgtcttctcacttgctttttcagtttacttgattatt
24100086

Query: 4991 attttactttgatacattagccaata 5016
||| ||||||| |||||||||||||
Sbjct: 24100087 gtttcactttgacacattagccaata 24100112

Score = 186 bits (94), Expect = 4e-44
Identities = 190/222 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
||||||||||| | ||||||||||||| | ||||| ||||| || ||||||||| |||||
Sbjct: 22762877 aaaattaattgtcataaaaatttattatttttaatttacatgctcattaaatataaaattaa
22762936

Query: 5177 aatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||||||||||| || | ||||||||||||||||||||| | ||||| |||
Sbjct: 22762937 aatttttagtgttatatataacaacattaattattttataacataattagtttattagctc
22762996

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||| | ||||||||| || ||||||||| ||||||||| ||||| | | ||||||| |||
Sbjct: 22762997 agtttgtagagcattgtgctaataatgcgaaagtcacaagtttgacttctacttgggtc
22763056

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttgaaaaaa 5338
| ||||||||||||||||| ||||| |||||||||||||
Sbjct: 22763057 actaatTTTaaattaattcGTaaaacatatatttttgaaaaaa 22763098

Score = 182 bits (92), Expect = 7e-43
Identities = 92/92 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 3499220 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
3499161

Query: 1703 tcaagtaccatacttctatccaaaccattaat 1734
|||||
Sbjct: 3499160 tcaagtaccatacttctatccaaaccattaat 3499129

Score = 182 bits (92), Expect = 7e-43
Identities = 137/152 (90%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaacaata
6575
|||||
Sbjct: 26167163 acaagttgaattgaactaaaatattttaaattaaaatatatatataaaattaccaacatta
26167104

Query: 6576 gaacaaaatattttaaatttgaaataatacaacaaaaatttttaaatacaaaacaatatggc
6635
|||||
Sbjct: 26167103 gaacaaaatattttaaatttgaaacaatacaacaaaaatttttaaatacaaaagaatatgac
26167044

Query: 6636 ataaaattaatgttggtggcctgagcctacac 6667
|||||
Sbjct: 26167043 ataaatttaacgttggtggccttgagtctacac 26167012

Score = 178 bits (90), Expect = 1e-41
Identities = 165/190 (86%)
Strand = Plus / Plus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcacacataaataacatta
5174
|||||

Sbjct: 32788649 aaaaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatatatta
32788708

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
5234

|||||
Sbjct: 32788709 gaaattttagtattatatatagtgacattaattattttataacataattgggtttattagt
32788768

Query: 5235 tcagttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggga
5294

|||
Sbjct: 32788769 tcggttgattagaacattatgctaataatgcgaaaataatagggttcgattcttatttgaa
32788828

Query: 5295 tcattaattt 5304

|||||
Sbjct: 32788829 ccattaattt 32788838

Score = 172 bits (87), Expect = 7e-40

Identities = 189/223 (84%)

Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 2573072 aaaattaattgtcacaaaatttattatttaaatttagatgcataataatatacataaga
2573131

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 2573132 aattttagtggttatatatagtaacatgatttattttataatataaattggcttattagttc
2573191

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|
Sbjct: 2573192 atttggtagagtgtcgtgctaataacctaagtcacaggttgactcttacttggact
2573251

Query: 5297 attaatTTTaaattaatttGTaaaatatatTTTtGaaaaaaa 5339

|||||
Sbjct: 2573252 attaatTTTaaattaattcataaaatatatTTTtGaaaaaaa 2573294

Score = 172 bits (87), Expect = 7e-40
 Identities = 138/155 (89%)
 Strand = Plus / Plus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacatta
 5174
 |||||
 Sbjct: 32592571 aaaaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatatatta
 32592630

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataattgatgtatttagt
 5234
 |||||
 Sbjct: 32592631 gaaattttagtattatatatagtgacattaattattttataacataattgatttatttagt
 32592690

Query: 5235 tcagttggtagagcattatgttaataatgtgaaa 5269
 || |||| |||| |||| || ||||| ||||
 Sbjct: 32592691 tcggttgattagaacattgtgctaataatgcgaaa 32592725

Score = 169 bits (85), Expect = 1e-38
 Identities = 88/89 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 317669 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 317610

Query: 1703 tcaagtaccatacttctatccaaaccatt 1731
 |||||
 Sbjct: 317609 tcaagtaccatacttctatccaaatcatt 317581

Score = 159 bits (80), Expect = 1e-35
 Identities = 83/84 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 9199988 aacgccttatcccactaggtgggggtcagctacatggatcaacttccgccataatgttcta
 9199929

Query: 1703 tcaagtaccatacttctatccaaa 1726
 |||||
 Sbjct: 9199928 tcaagtaccatacttctatccaaa 9199905

Score = 157 bits (79), Expect = 4e-35
 Identities = 79/79 (100%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 20844529 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 20844588

Query: 1703 tcaagtaccatacttctat 1721
 |||||
 Sbjct: 20844589 tcaagtaccatacttctat 20844607

Score = 151 bits (76), Expect = 2e-33
 Identities = 82/84 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 32795285 aacgccttatcccactaggtggggctcggctacatggatcaacttccggtcatagtgttcta
 32795226

Query: 1703 tcaagtaccatacttctatccaaa 1726
 |||||
 Sbjct: 32795225 tcaagtaccatacttctatccaaa 32795202

Score = 149 bits (75), Expect = 1e-32
 Identities = 223/270 (82%), Gaps = 3/270 (1%)
 Strand = Plus / Plus

Query: 7426 cagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattac
 7485
 |||||
 Sbjct: 32222157 cagtaatacaacaatgaa-aacacacatgacgactataaatcattaaataataaaatagc
 3222215

Query: 7486 aatcaaataatttggggaggggggtcttcaaaacttgattcaagggttcattgtatcatcga
7545
||||||| || || ||||| ||||| ||||| |||||
Sbjct: 32222216 aatcaaataaattaggacatttttcttcaaaactcaattcaagggttcattgtatcatcga
32222275

Query: 7546 ggtattcacccaaaccctccaaattcaaagagcttgacagaaactgggtgggtggtgtgcat
7605
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 32222276 gatattcatccaaactctccaaattcaaagaccttgacataaatttggtgggtggtgtgcat
32222335

Query: 7606 atgtttatgtgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaaga
7665
||||| |||| ||||| | | || ||| ||| || ||||| ||||| |||||
Sbjct: 32222336 atgtttgtgtgagtggtgtttgcaatggtaatatataattcaaggca--tgaggttcgaga
32222393

Query: 7666 gtttcccaaatatagaaaacatagtaatta 7695
||||| ||||| ||||| ||||| |||||
Sbjct: 32222394 gtttctcaaataatagaaaacatagtcatta 32222423

Score = 147 bits (74), Expect = 4e-32
Identities = 176/210 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
||||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 721534 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatatataaa
721593

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|| ||||| ||||| || | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 721594 aaatttagtggttatataataaatattattttataacataattgatctattagctc
721653

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
| ||||| ||||| || || || ||||| ||||| ||||| ||||| |||||
Sbjct: 721654 acttggtagatcggtgtgctaataacatgaaagtcacaggttgactcttatttgagct
721713

Query: 5297 attaattttaaattaatttgtaaaatatat 5326
||||||| ||||| ||||| ||||| |||||

Sbjct: 721714 attaatTTTaaattaattcataaaaatatat 721743

Score = 145 bits (73), Expect = 1e-31
Identities = 139/161 (86%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattag
5175

|||| ||||||| ||||||||||||| ||||||| ||| || |||||||||||||
Sbjct: 9262655 aaaatttaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatacattac
9262714

Query: 5176 aaatTTtagtggttatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235

||||||||||||||||| ||| | ||||||||||||||||||||||||| | ||||||| |
Sbjct: 9262715 aaatTTtagtggttatatatagcaatattaattatTTTataacataattggttatattagct
9262774

Query: 5236 cagttggtagagcattatgTTaataatgtgaaagtcaaaa 5276

||||||||||| | || ||||||| |||||||||||||
Sbjct: 9262775 tagttggtagagtggTTTgctaataacgtgaaagtcaaaa 9262815

Score = 143 bits (72), Expect = 6e-31
Identities = 117/132 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176

||||||||||||| ||||||||||||| ||||||| |||||| | |||||||||||||
Sbjct: 22762675 aaaattaattgtcacaaaatttattatTTaaatttacatgcagattaaatatacattaga
22762616

Query: 5177 aatTTtagtggttatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236

||||||| | |||||| ||| | ||||||||||||||||| ||||||||| |||||||||
Sbjct: 22762615 aatTTtaattatatatatagcaacattaattatTTtatagcataattgatctattagttt
22762556

Query: 5237 agttggtagag 5248

||||| |||||
Sbjct: 22762555 agttggctagag 22762544

Score = 141 bits (71), Expect = 2e-30
 Identities = 119/135 (88%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 |||||
 Sbjct: 28442345 aaaattaattggttataaaaatttattatttaaatttacatatgcattaaataacattaaa
 28442404

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 28442405 aatttttagtggttatatatagtaataattattttattttataacataattgatctattaattg
 28442464

Query: 5237 agttggtagagcat 5251
 |||||
 Sbjct: 28442465 agttgattagagcat 28442479

Score = 137 bits (69), Expect = 4e-29
 Identities = 177/213 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 |||||
 Sbjct: 4489254 aaaattaattggttacaaaatttattatgttaaacttatatgtgtattaaataacattaaa
 4489195

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 || |||||
 Sbjct: 4489194 aaatttagtggttatatataacgatattaattattttttaacataattgtcttattaattc
 4489135

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 4489134 agttgattataatatgatgctaataatgtgaaagtcaaagatttgaaacttgcataatc
 4489075

Query: 5297 attaatTTTTAAATTAATTTGTAaaatatatttt 5329
 |||||
 Sbjct: 4489074 attaatTTTTAAATTAATTTGTAaaatatatttt 4489042

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||||

Sbjct: 6322745 agttggttagagtgtcgtgctaataatgtgaaaatcacagattcaatttctgcttagaca
6322804

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttGaaaaaa 5337
 |||||||||||||||| |||||||||||||||| |||||
Sbjct: 6322805 attaatTTTaaattaattcGTaaaatatatttttTaaaaaa 6322845

Score = 135 bits (68), Expect = 1e-28
Identities = 116/132 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
 |||||||||||| |||||||||||||| |||||| |||| | || ||||||||| |
Sbjct: 721413 aaaattaattgtcacaaaatttattattTaaattacatgcgcattagatatatacattaaa
721354

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| |||||||| | | || | |||||||||||||||||| |||||||||
Sbjct: 721353 aatttttGTgttatataTacaatatTTTttattttataacataattgatctattagttc
721294

Query: 5237 agttggttagag 5248
 |||||||||||
Sbjct: 721293 agttggttagag 721282

Score = 135 bits (68), Expect = 1e-28
Identities = 229/281 (81%), Gaps = 5/281 (1%)
Strand = Plus / Minus

Query: 6883 tatacacaagatgtatgtagttcctatactcatggtgagcatgcttataaaca---acaa
6939
 |||||||||||||||||||| | || |||| |||||||||||| || || |||||
Sbjct: 26166774 tatacacaagatgtatgtagttcTgtacacatggtgagcatgcttacaagcatcaaaa
26166715

Query: 6940 catgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatcta
6999
 |||||||||| | |||||| |||||| |||| | |||||| |||||||||||
Sbjct: 26166714 catgagaacaaggcatgtgcaatttttGgaatttactatagtcacaccacctttcatcta
26166655

Query: 5116 aaaaattaattgttacaaaattttattatctaaatttgcatgcacaataaatatacattag
5175 |||
Sbjct: 2513142 aaaaattaattttcacaaaattttattatctaaatttacatgtgcattaaatatacattag
2513201

Query: 5176 aaat t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a 5225
 |||||
 Sbjct: 2513202 aaat t t t a g t g t t a t a t a t a a c c a t a t t a a t t a t t t t a t a a c a t a a t t g a 2513251

Score = 131 bits (66), Expect = 2e-27
 Identities = 118/134 (88%), Gaps = 1/134 (0%)
 Strand = Plus / Minus

Query: 5117 aaaat t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a a t a t a c a t t a g a 5176
 |||||
 Sbjct: 20489703 aaaat t a a t t g t c a c a a a a t t t a t t a t t t a a a t t t a c a t g c a c a t t a a a t a t a c a t t a g a 20489644

Query: 5177 aa-t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t 5235
 || |||||
 Sbjct: 20489643 aa t t t t t a g t g t t a t a t a t a g a a a c a t t a t t t a t t t t a t a a c a t a a t t g g a c t a t t a a c t 20489584

Query: 5236 c a g t t g g t t a g a g c 5249
 |||||
 Sbjct: 20489583 t a g t t g g t t a g a g c 20489570

Score = 129 bits (65), Expect = 9e-27
 Identities = 104/117 (88%)
 Strand = Plus / Plus

Query: 5117 aaaat t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a a t a t a c a t t a g a 5176
 |||||
 Sbjct: 990191 aaaat t a a t t g t c a c a a a a t t a t t a t a t a a a t t t a c a t g t a c a t t a a a t a t a c c t t a a a 990250

Query: 5177 aa t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g 5233
 | |||||
 Sbjct: 990251 a t t t t t a a t g t t a t a t a t a g t g a c a t t a a t t a t t t t a t a a c a t a a t t g a t c t a t t a g 990307

Score = 127 bits (64), Expect = 3e-26
 Identities = 67/68 (98%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 21607425 aacgccttatcccactaggtgggggtcggctacatggatcaatttccgccataatgttcta
 21607484

Query: 1703 tcaagtac 1710
 ||||||||
 Sbjct: 21607485 tcaagtac 21607492

Score = 125 bits (63), Expect = 1e-25
 Identities = 181/219 (82%), Gaps = 1/219 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||||||||| |||||||||||||| |||||| || || ||||||||||||||||
 Sbjct: 20490089 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatacattaga
 20490148

Query: 5177 aa-ttttagtggttatatttagtgaaattaatttttataacataattgatgtattagtt
 5235
 || |||||||||||||| || | |||| |||||||||||||||||| |||||| |
 Sbjct: 20490149 aatttttagtggttatataataacaacattatttattttataacataattgggctattagct
 20490208

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggt
 5295
 || |||||||| | ||| || |||||| |||||||||| | || || | || ||||
 Sbjct: 20490209 caattgggttaaacaacatcttgctaataacctgaaagtcataagatttaactattgcttgagc
 20490268

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaa 5334
 |||||||||||||| ||| |||| ||||||||||||
 Sbjct: 20490269 cattaatttttaaattattcataaaacatatatttttgaaa 20490307

Score = 123 bits (62), Expect = 5e-25
 Identities = 176/214 (82%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||| |||| || |||||||||||||||||||| | ||| || |||||||||| ||| |
Sbjct: 2513576 aaaactaatagtcacaaaatttattatctaaatctatatgtgcattaaatataccttaaa
2513635

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||||||||||||| || || |||||||||||||||||| |||||||| |||||| ||
Sbjct: 2513636 aatttttagtggttatatataacgatattaattattttataatataattgacctattagctc
2513695

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

||| | | ||| || || |||||||||||| | ||| | ||| ||| || ||| ||
Sbjct: 2513696 agtcgatcagaatatcgtgctaataatgtgagactcacatgtttgatttttgcttgctgc
2513755

Query: 5297 attaatTTTaaattaatttgTaaaatatattttt 5330

|||||||||||||||||||||||||| ||||||||
Sbjct: 2513756 attaatTTTaaattaatttgTaaaacatatattttt 2513789

Score = 123 bits (62), Expect = 5e-25
Identities = 134/157 (85%), Gaps = 2/157 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||||||||| |||| |||||||| |||||||| | ||| || ||||||||||||||||
Sbjct: 2542926 aaaattaattgtcacaa--tttattattTaaatttacctgcgcattaaatatacattaga
2542983

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||||||||||||| |||| | |||| |||||||||| |||||||| ||||||||
Sbjct: 2542984 aatttttagtggttatgttttagcaatatattttattttataatgtaattgactcattagttc
2543043

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtca 5273

|||||||| |||||| || |||||| ||||||||
Sbjct: 2543044 agttgggttatagcattgtgctaataacctgaaagtca 2543080

Score = 123 bits (62), Expect = 5e-25
Identities = 116/134 (86%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaataacattagaa
5177
|||||
Sbjct: 29575035 aaattaattgtcacaaaacttattatttaaatttacatacgcatataacattagaa
29574976

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
5237
|||||
Sbjct: 29574975 attttactggttatataacaatattattttatttaataacataattgacctattaattca
29574916

Query: 5238 gttgggtagagcat 5251
|||||
Sbjct: 29574915 gttgggtagagcat 29574902

Score = 123 bits (62), Expect = 5e-25
Identities = 125/146 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
|||||
Sbjct: 36464447 aaaattaattgtcacaaaatttattatttaaatttacttgcgcatataatataattaga
36464506

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||
Sbjct: 36464507 aagtttagtggttatataataacattattttattttataacataattgatctattaactt
36464566

Query: 5237 agttgggtagagcattatgttaataa 5262
|||||
Sbjct: 36464567 agttgatcagaacattgtgttaataa 36464592

Score = 121 bits (61), Expect = 2e-24
Identities = 115/133 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
|||||
Sbjct: 6372853 aaaattaattgtcactaaatttattatttaaatttatatgtgcatttaataacattaga
6372794

Query: 5177 aat t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t c
 5236

|||||
 Sbjct: 6372793 aat t t t a g t g t t a t a t a t a a c g a t a t t a a t t a t t t t a t a a c a t a a t t g g t c t a t t a g c t t
 6372734

Query: 5237 agt t g g t t a g a g c 5249

|||||
 Sbjct: 6372733 agt t g g g t a g a g c 6372721

Score = 119 bits (60), Expect = 9e-24
 Identities = 114/132 (86%)
 Strand = Plus / Plus

Query: 5117 a a a a t t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a a t a t a c a t t a g a
 5176

|||||
 Sbjct: 6768770 a a a a t t a a t t g t a c a a a a t t t a t t a t t t a a a t t t a c a t g c g c a t t a a a t a t t c a t t a a a
 6768829

Query: 5177 aat t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t c
 5236

| |||||
 Sbjct: 6768830 a t t t t t a g t g t t a t a t a t a t c a a c a t t a t t t a t t t t g t a a t g t a a t t g a t t t a t t a g t t c
 6768889

Query: 5237 agt t g g t t a g a g 5248

|||||
 Sbjct: 6768890 agt t g g t t a g a g 6768901

Score = 119 bits (60), Expect = 9e-24
 Identities = 118/136 (86%), Gaps = 1/136 (0%)
 Strand = Plus / Minus

Query: 5117 a a a a t t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a a t - a t a c a t t a g
 5175

|||||
 Sbjct: 32881637 a a a a t t a a t t a t t a c a a a a t t t a t t a t a t a a a t t t a t a t g t a t a t t a a a t t a t a c a t t a g
 32881578

Query: 5176 a a a t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t
 5235

|||||

Query: 5254 tggttaataatgtgaaagtcaaaagttaa 5282
 ||| | | | | | | | | | | | | |
Sbjct: 3943856 tgttaataatctaaaagtcacagttcaa 3943884

Score = 113 bits (57), Expect = 5e-22
Identities = 96/109 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
 |||||
Sbjct: 5478070 aaaattaattgtcacaaaatttattatgtaaacttacatgtgcattaaatatattaaa
5478129

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||||
Sbjct: 5478130 aatttttagtggttatatatagaaacattaattattttataacataattga 5478178

Score = 113 bits (57), Expect = 5e-22
Identities = 96/109 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
 |||||
Sbjct: 6355925 aaaattaattgtcataaaaatttattatgtaaatttacatgtgcattaaatacattaaa
6355984

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 | |||||
Sbjct: 6355985 agtttttagtggttatatataacgacattaattattttataacataattga 6356033

Score = 111 bits (56), Expect = 2e-21
Identities = 56/56 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgt 1698
 |||||
Sbjct: 5235797 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgt
5235852

Score = 111 bits (56), Expect = 2e-21
Identities = 83/92 (90%)
Strand = Plus / Minus

Query: 6575 agaacaaaatattttaaatTTgaaataatacaacaaaaattttaaaatacaacaatatgg
6634
|||||
Sbjct: 11431601 agaacaaaatatataaatTTgaattaatacaacaaaattttacaaatacaacaatatgg
11431542

Query: 6635 cataaaaattaatgTTgTTggcctgagcctaca 6666
|||||
Sbjct: 11431541 catacattcaatgTTgTTggcctgagcctaca 11431510

Score = 111 bits (56), Expect = 2e-21
Identities = 163/198 (82%), Gaps = 3/198 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgTTacaaaatttattatctaaattTgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 27412144 aaaattaattatcacaaaatttatt---taaatttacatgcgtattaaatatatattaga
27412200

Query: 5177 aatttttagtgTTatatatttagtgaaattaattttttataacataattgatgtattagttc
5236
|||||
Sbjct: 27412201 aattttaatgTTatgtataacaacattatttattttataacgtaattgactcattaactc
27412260

Query: 5237 agTTggTTtagagcattatgTTaataatgtgaaagTcaaaagTTcaattcttacttggatc
5296
|||||
Sbjct: 27412261 agTTggTTagaatgTTgtgTTaataatctgaaagTcacaggtTcgagtcttcttagatc
27412320

Query: 5297 attaattttaaattaatt 5314
|||||
Sbjct: 27412321 attaattttaaattaatt 27412338

Score = 109 bits (55), Expect = 8e-21
Identities = 127/151 (84%)
Strand = Plus / Minus

Query: 5133 aaattttattatctaaattTgcatgcacaataaatatacattagaaatttttagtgTTatat
5192
|||||

Sbjct: 2398674 aaatttattattttaaatttacatgctcattaaatatacattaaaaatttttagtggttatgt
 2398615

Query: 5193 ttagtgaaattaattatTTTTATAacataattgatgtattagttcagttgggttagagcatt
 5252

|| | |||| ||||||||| ||||||| |||| ||||||||| ||||
 Sbjct: 2398614 ataacaacattatttattttataataataattgactcattagctcagttgggttagaacatt
 2398555

Query: 5253 atgttaataatgtgaaagtcAAAAGTTcaat 5283
 ||| ||||| ||||||||| | |||||||
 Sbjct: 2398554 gtgtaaataacctgaaagtcacaggTTcaat 2398524

Score = 109 bits (55), Expect = 8e-21
 Identities = 94/107 (87%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgTTacaaaatttattatctaaatttgcATgcacaataaatatacattaga
 5176

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 Sbjct: 6330417 aaaattagttgtcactaaatttattattttaatttatatgtgcattaaatatattaga
 6330358

Query: 5177 aatttttagtgTTatatTTtagtgaaattaattatTTTATAacataatt 5223
 ||||||||| ||||| || || ||||||||| |||||||||
 Sbjct: 6330357 aatttttagtgTTatatgttagcgacattaattatTTTATAacataatt 6330311

Score = 109 bits (55), Expect = 8e-21
 Identities = 82/91 (90%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtgTTatatTTtagtgaaattaattatTTTATAacataa
 5221

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 Sbjct: 32701692 taaatatataattagaaatttttagtattatatatagtgatattaattatTTTATAacataa
 32701751

Query: 5222 ttgatgtattagttcagttgggttagagcatt 5252
 ||| | ||||||||| |||| ||||| ||||
 Sbjct: 32701752 ttggtttattagttcgggttgattagaacatt 32701782

Score = 107 bits (54), Expect = 3e-20

Identities = 124/146 (84%), Gaps = 1/146 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

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 Sbjct: 1673502 aaaattaattatcacaaaatttattatttaaatttacatgcgcattaaatatacattaga
 1673443

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

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 Sbjct: 1673442 aatttttagtattatgtataacaacattatttatttta-aatataattgactcattagctc
 1673384

Query: 5237 agttgggtagagcattatgttaataa 5262

|| ||||||||| |||||
 Sbjct: 1673383 aggtgggtagagcattatgctaataa 1673358

Score = 105 bits (53), Expect = 1e-19
 Identities = 134/157 (85%), Gaps = 3/157 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag-
 5175

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 Sbjct: 6998067 aaaattagttgtcacaaaatttattatttaaatttatatgtacattaaatatacattaga
 6998126

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatg-tattagt
 5234

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 Sbjct: 6998127 aaatttttagtggttatataacaacattagttattttataacataatt-atgttattagc
 6998185

Query: 5235 tcagttgggtagagcattatgttaataatgtgaaagt 5271

| ||||| ||||||| || ||||||| |||||
 Sbjct: 6998186 ttagttgattagagcatcgctgctaataatgaaagt 6998222

Score = 101 bits (51), Expect = 2e-18
 Identities = 54/55 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatg 1697

|||||
Sbjct: 3037832 aacgccttatctcactaggtggggtcggctacatggatcaacttccgccataatg
3037886

Score = 97.6 bits (49), Expect = 3e-17
Identities = 130/157 (82%)
Strand = Plus / Minus

Query: 5170 cattagaaatTTtagtgTTatatTTtagtgaaattaattTTTataacataattgatgta
5229

|||||
Sbjct: 371065 cattagaaatTTtagtgTTatatataatgataataattTTTataacataattgactta
371006

Query: 5230 ttagttcagttggTTtagagcattatgTTaataatgtgaaagTcaaaagttcaattcttac
5289

||| || |||||
Sbjct: 371005 ttaatTTtagttggTTtagaacatggtagtaataatctagaagtcacatatTTcaatTTTgt
370946

Query: 5290 ttggatcattaatTTTaaattaattTgtaaaatatat 5326

|| | |||||
Sbjct: 370945 atgaaccattaatTTTaaactaattTgtagaatatat 370909

Score = 97.6 bits (49), Expect = 3e-17
Identities = 103/120 (85%), Gaps = 2/120 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 4829192 aaaattaattatcataaaatttattatctaaatttacatgcgcattaaatatattaga
4829133

Query: 5177 aatTTtagtgTTatatTTtagtgaaattaattTTTataacataattgatgtattagttc
5236

| ||||| | |||||
Sbjct: 4829132 agTTTtaattattatatataataacattaattTTTataac--aattgatctattagttc
4829075

Score = 97.6 bits (49), Expect = 3e-17
Identities = 97/113 (85%)
Strand = Plus / Minus

Query: 5121 ttaattggtacaaaatttattatctaaatttgcacataaataacattagaaatt
5180

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Sbjct: 6322376 ttaattgtcactaaaatttatcatttaaatttatatatgcattaaataacattataaatt
6322317

Query: 5181 ttagtggttatatttagtgaaattaattattttataacataattgatgtattag 5233

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Sbjct: 6322316 ttagtggttatatatagcgacattaattattttataacataattgggtctattag 6322264

Score = 97.6 bits (49), Expect = 3e-17
Identities = 97/113 (85%)
Strand = Plus / Minus

Query: 5121 ttaattggtacaaaatttattatctaaatttgcacataaataacattagaaatt
5180

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Sbjct: 6355676 ttaattgtcactaaaatttattatttaaatttatatatgcattaaataacattataaatt
6355617

Query: 5181 ttagtggttatatttagtgaaattaattattttataacataattgatgtattag 5233

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Sbjct: 6355616 ttcgtgttatatatagtgacattaattattttataacacaattgggtctattag 6355564

Score = 97.6 bits (49), Expect = 3e-17
Identities = 67/73 (91%)
Strand = Plus / Plus

Query: 6298 tttttatttttttggttattaattgtctatatttgggttctgtttaaattgaaaacaata
6357

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Sbjct: 6693213 tttttaattttttggttattaattgtctatatttatgttttgggttaaaactgaaaataata
6693272

Query: 6358 ttatttttcatat 6370

||||| |||||
Sbjct: 6693273 ttattttgcatat 6693285

Score = 97.6 bits (49), Expect = 3e-17
Identities = 58/61 (95%)
Strand = Plus / Plus

Query: 5290 ttggatcattaatTTTTaaattaatttgtaaaatatatTTTTgaaaaaaaaattataaaaa
5349

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Sbjct: 6998238 ttggaccattaatTTTTaaattaattcgtaaaatatatTTTTgaaaaaaaaattataaaaa
6998297

Query: 5350 a 5350

|
Sbjct: 6998298 a 6998298

Score = 97.6 bits (49), Expect = 3e-17
Identities = 64/69 (92%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacataaatatacattaga
5176

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Sbjct: 8893498 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattaga
8893557

Query: 5177 aatttttagt 5185

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Sbjct: 8893558 agtttttagt 8893566

Score = 97.6 bits (49), Expect = 3e-17
Identities = 91/105 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacataaatatacattaga
5176

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Sbjct: 26489392 aaaattaattatcacaaaatttattatttaaatttacatacacattaaatataatataaa
26489451

Query: 5177 aatttttagtggtatatatttagtgaaattaattatTTTataacataa 5221

||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 26489452 aatttttagtactatatataataatattaattatTTTataacataa 26489496

Score = 97.6 bits (49), Expect = 3e-17
Identities = 79/89 (88%)
Strand = Plus / Plus

Query: 6580 aaaatatttaaatttgaaataataacaacaaaaattttaaaatacaaacatattggcataa
 6639

|||||
 Sbjct: 26926510 aaaatatttaaatttgaaataataacaacaaaaatcttacaatacaaacatattgacatac
 26926569

Query: 6640 aattaatgttggttgacctgagcctacaca 6668

| | |||||
 Sbjct: 26926570 attcaatgttggttgacctgagcctacaca 26926598

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 94/108 (87%), Gaps = 1/108 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacataaatatacattaga
 5176

|||||
 Sbjct: 2513480 aaaattaattcttacaaaatttattatctaaatttacatgtgtattaaatatacattaaa
 2513421

Query: 5177 aatttttagtggttatatttagtga-aattaattattttataacataatt 5223

|||||
 Sbjct: 2513420 aattttaatgttatataatacagacatttaattattttataatataatt 2513373

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 72/80 (90%)
 Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggttttattcttaaatttgcttgag
 5073

|||||
 Sbjct: 25416733 ataattttaataaaactattttatgagtaaataaaaagatttcattcttaaatttacttttag
 25416792

Query: 5074 ccctctcaagtccttgagcc 5093

|||||
 Sbjct: 25416793 gcctctcaaataccttgagcc 25416812

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 65/71 (91%)
 Strand = Plus / Plus

Score = 91.7 bits (46), Expect = 2e-15
Identities = 67/74 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 30063729 aaaattaattgtcacaaaatttattatctaaatttgcatgcgcattaaatatacattaaa
30063670

Query: 5177 aatttttagtggttat 5190

|||||
Sbjct: 30063669 aatttttaatggttat 30063656

Score = 89.7 bits (45), Expect = 8e-15
Identities = 90/105 (85%)
Strand = Plus / Minus

Query: 5121 ttaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaatt
5180

|||||
Sbjct: 6301768 ttaattgttactaaaatttattatctaaatttgcatgcgcattaaatatacattataaatt
6301709

Query: 5181 ttagtggttatatttagtgaaattaattattttataacataattga 5225

|||||
Sbjct: 6301708 ttagtattatataaacaacattaattattttataacataattga 6301664

Score = 89.7 bits (45), Expect = 8e-15
Identities = 75/85 (88%)
Strand = Plus / Plus

Query: 5014 ataattttaataaaattattttatgaataaataaaaagggtttattcttaaatttgcttgag
5073

|||||
Sbjct: 24103227 ataattttaataaaactattttatgagtaaataaaaaggcctcagtccttaaatttacttttag
24103286

Query: 5074 ccctctcaagtccttgagccgcccc 5098

|||||
Sbjct: 24103287 gcctctcaagtgcttgagccgcccc 24103311

Score = 87.7 bits (44), Expect = 3e-14
Identities = 77/88 (87%)
Strand = Plus / Minus

```
Query: 6640      aattaatgttggtggcctgagcctaca 6666
               | | ||||| ||||| ||||| |||||
Sbjct: 17676234 attcaatgttqttqgcttgaqcctaca 17676260
```

Score = 85.7 bits (43), Expect = 1e-13
Identities = 61/67 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 33043971 aaaattaattggttacaaaatttattatttaaattacatgcgcattagatatattaga
33043912

Query: 5177 aatttta 5183
 |||||
Sbjct: 33043911 aatttta 33043905

Score = 85.7 bits (43), Expect = 1e-13
Identities = 61/67 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 33155118 aaaattaattggttacaaaatttattatttaaattacatgcgcattagatatattaga
33155059

Query: 5177 aatttta 5183
 |||||
Sbjct: 33155058 aatttta 33155052

Score = 83.8 bits (42), Expect = 5e-13
Identities = 69/78 (88%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaaagggtttattcttaaatttgcttgag
5073
 |||||
Sbjct: 25970412 ataattttaataaattattttataagtaaataaaagatcttattcttaaatttacgttag
25970353

Query: 5074 ccctctcaagtccttgag 5091
 |||||
Sbjct: 25970352 gcctctcaagtccttgag 25970335

Query: 7601 tgcataatgtttatgtgqggtgtgtctacqgtgataacataaaaactcaaggcatgtg 7655

Query: 5074 ccctctcaagt 5084
|||||||
Sbjct: 193006 gcctctcaagt 192996

Score = 75.8 bits (38), Expect = 1e-10
Identities = 134/166 (80%)
Strand = Plus / Minus

Query: 6831 ttgcacaatttcccaagtaatcatttgtacatggttatagatacttttcagcgatacacaca
6890
||||||| ||| ||||| ||| ||||| ||||| ||| |||||
Sbjct: 11431320 ttgcacaattctccaaacaatcatctgtatatggttgagatactttccaacatatacacg
11431261

Query: 6891 agatgtatgtagttcctataactcatgggtgagcatgcttataaacaacaacatgagaacaa
6950
||||||| ||| ||||| ||| ||| ||| ||||| ||||| |||||
Sbjct: 11431260 agatgtatgtagtttatgtactcatgatgacctttcgtacaagcaacaacatgagaacaa
11431201

Query: 6951 aacatgtgcattttttgaaatttgtcacagtcacactacctttcat 6996
||||| || ||||| ||||| |||||
Sbjct: 11431200 gggttgtgcaacttctgtaatttgccacagtcacacttcctttcat 11431155

Score = 71.9 bits (36), Expect = 2e-09
Identities = 127/156 (81%), Gaps = 1/156 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
||||||| ||||| ||||| ||||| ||| ||| ||||| |||||
Sbjct: 2384322 aaaattaattattacaaaatttattatctaaacttatatgtatatataaatataaatataa
2384263

Query: 5177 aatttttagtggttatatttagtgaaattaattattt-tataacataattgatgtattagtt
5235
| ||||| | ||||| || | ||||| ||||| ||| ||||| |||||
Sbjct: 2384262 atttttaattattatataacaataattatttctttaataataattagcctattaatt
2384203

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagt 5271
||||||| ||| ||||| ||||| |||||
Sbjct: 2384202 tagttgggttagaataattgtgttaataatgtgaaagt 2384167

Score = 71.9 bits (36), Expect = 2e-09
Identities = 75/88 (85%)
Strand = Plus / Plus

Query: 5239 ttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcat
5298
 ||||| | || ||||| ||||| | | | | |
Sbjct: 6356058 ttggttagagcgtcttgctaataatgtgaaagtcacaagttcaatttctgcctagacaat
6356117

Query: 5299 taattttaaattaatttgtaaaatatat 5326
 ||||| |||||
Sbjct: 6356118 taattttaaattaattcgtaaaatatat 6356145

Score = 71.9 bits (36), Expect = 2e-09
Identities = 90/108 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
 ||||| | | ||||| ||||| ||||| ||||| || || ||||| |||||
Sbjct: 7388315 aaaattaattatcataaaattaattatttaaatttacatgtgcattaaatatgcattaga
7388256

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224
 |||| | |||| | |||| | |||| |||| | ||||| |||||
Sbjct: 7388255 aattgtagtgatatatatagtatcattatttattttataacttaattg 7388208

Score = 71.9 bits (36), Expect = 2e-09
Identities = 42/44 (95%)
Strand = Plus / Plus

Query: 5296 cattaattttaaattaatttgtaaaatatatttttgaaaaaaaa 5339
 ||||| ||||| |||||
Sbjct: 28442523 cattaattttaaattaattagtaaagtatatatttttgaaaaaaaa 28442566

Score = 69.9 bits (35), Expect = 7e-09
Identities = 92/109 (84%), Gaps = 4/109 (3%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaatttattatct-aaatttgcatgcacaataaatatacatta
5174

|||||
Sbjct: 6766617 aaaaattaattggttataaaaatttattattttaaatttacatgtgcattaaatatacatta
6766676

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataatt 5223

|||||
Sbjct: 6766677 aaaattttattattatatata--atattatttattttataaatataatt 6766722

Score = 69.9 bits (35), Expect = 7e-09
Identities = 143/179 (79%)
Strand = Plus / Plus

Query: 7061 aagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgt
7120

|||||
Sbjct: 17676764 aagaactgtgtgtcacatcaatcgaactcaagaacattgtgattgttgcctttctaagt
17676823

Query: 7121 atgtctttcatagccttggtttaataacttttgtataaaacttcaccaaagtgaatcactctt
7180

|||||
Sbjct: 17676824 gcgtgttcgatggccttggttagtacttcctataaaacttggccagatgcaagcattggt
17676883

Query: 7181 gcgacttctctccccctttggttgaacaatgcattacacctagtatagggtgattttac
7239

|||||
Sbjct: 17676884 gcagcttctctccctcggttggttgaacaatgcattacaccttgcataatgtggattttac
17676942

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221

|||||
Sbjct: 19598570 taaatatacattagaaattttagtgctatatatatcgacgttaattattttttaacataa
19598511

Query: 5222 ttg 5224

|||
Sbjct: 19598510 ttg 19598508

Score = 67.9 bits (34), Expect = 3e-08
Identities = 91/109 (83%), Gaps = 2/109 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| |||| | ||||| ||||| || | | ||||| |||||
Sbjct: 328880 aaaattaattgtcaca--tttattatttaaattacatacgattaaatatacattaga
328823

Query: 5177 aattttagtggttatattttagtgaaattaattattttataacataattga 5225
 || |||| ||||| || | |||| ||||| ||||| |||||
Sbjct: 328822 aaatttaattgttatatataacaacattatttattttataatataattga 328774

Score = 67.9 bits (34), Expect = 3e-08
Identities = 109/133 (81%), Gaps = 2/133 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| ||||| ||||| ||||| ||||| || || || ||||| || |
Sbjct: 6388291 aaaattaattgtgacaaaatttattatgtaaatttatatatgcattaagtatacatgaaa
6388350

Query: 5177 aattttagtggttatattttagtgaaattaattattttataacataattgatgtattagttc
5236
 | ||||| ||||| | || | ||||| ||||| ||||| ||||| ||
Sbjct: 6388351 attttagtggttatctataacaacattaattattt--taacataattgacttattaactc
6388408

Query: 5237 agttggtagagc 5249
 ||||| |||||
Sbjct: 6388409 agttggtagagc 6388421

Score = 67.9 bits (34), Expect = 3e-08
Identities = 65/74 (87%), Gaps = 1/74 (1%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataatttttatc
4816
 |||| ||||| ||||| |||| |||| |||| |||| | || ||||| |||||

[illegible]

Sbjct: 26927094 tagtacttttcgtataaaactttgtcagatgcaagcattgttgcaacttctctccctccttt
26927153

Query: 7201 gttgaacaatgcattacacct 7221
|||||||
Sbjct: 26927154 gttgaacaatgcattacacct 26927174

Score = 65.9 bits (33), Expect = 1e-07
Identities = 48/53 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatata 5169
||||||| | ||||||| ||||||| ||||||| |||||||
Sbjct: 36464137 aaaattaattatcacaaaatttattatttaaatttacatgcacattaaatata
36464085

Score = 63.9 bits (32), Expect = 4e-07
Identities = 71/84 (84%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
||||||| |||| ||| ||||||| |||| | ||||||| |||||||
Sbjct: 4489379 taaatataatataaaaaatttagtggttatatatagcaacattaattattttttaacatga
4489438

Query: 5222 ttgatgtattagttcagttggtta 5245
| || ||||||| |||||
Sbjct: 4489439 tcaatctattagttcagttggtta 4489462

Score = 63.9 bits (32), Expect = 4e-07
Identities = 69/80 (86%), Gaps = 1/80 (1%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
||||||| ||||||| ||||||| |||| || | || ||| |||||||
Sbjct: 14692760 taaatataaattagaaaatttttagtggttatatatagcgacactattta-tttataacataa
14692702

Query: 5222 ttgatgtattagttcagttg 5241
| | |||||||

Sbjct: 14692701 tgtgtctattagttcagttg 14692682

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 65/76 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176

 ||||||| | ||| ||||||||||||||||||| || ||| ||||||| | || |
 Sbjct: 26489208 aaaattaaatattataaaaatttattatctaaatttagatatacattaaatatataatata
 26489149

Query: 5177 aatttttagtggttatat 5192
 |||||||
 Sbjct: 26489148 aatttttagtggttatat 26489133

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 55/63 (87%)
 Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataaataacattagaaatttttagtggtta
 5189

 ||||||| ||||| |||| | ||||| ||||||| ||||| |||||
 Sbjct: 703668 acaaaaatttattatgtaaattaacatgtacgttaaataataaattagaaatttttagtgcta
 703727

Query: 5190 tat 5192
 |||
 Sbjct: 703728 tat 703730

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 58/67 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176

 ||||||| ||||||| ||||| ||| | ||||||| |||||
 Sbjct: 3943698 aaaattaattgtcacaaaatttattatgtaaatttatatgtgtattaaataacattaaa
 3943639

Query: 5177 aatttta 5183
 |||||

Sbjct: 3943638 aatttta 3943632

Score = 62.0 bits (31), Expect = 2e-06
Identities = 56/63 (88%), Gaps = 1/63 (1%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaat-ttggttatatttagtgaaattaattattttataacata
5220

||||||| ||||||||| ||||||||| || || ||||| ||||||||| |||||
Sbjct: 19798498 taaatatatattagaaat-ttggttatataataatattattttataacata
19798439

Query: 5221 att 5223
|||
Sbjct: 19798438 att 19798436

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataacattagaaat-ttggtta
5189

||||||| ||||||| || || ||||| ||||| ||||||||| |||
Sbjct: 26895405 acaaaatttattatgtaaatttagatgtacattaaatataaaatttttagtatta
26895346

Query: 5190 tat 5192
|||
Sbjct: 26895345 tat 26895343

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Plus

Query: 1649 ttatcccactaggtggggtcggctacatggatca 1682
||||||| ||||||| ||||||| ||||||| |||||
Sbjct: 37088781 ttatcccactaggtgaggtcggctacatggatca 37088814

Score = 58.0 bits (29), Expect = 3e-05
Identities = 107/131 (81%), Gaps = 4/131 (3%)

Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176

|||||
Sbjct: 6330625 aaaattaattgtcacacaatttattatgtaaatttatatatgcattaagtatacatgaaa
6330684

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 6330685 ttttttagtggttat--ttaacgacattaattatttta--acataattgacttattagctc
6330740

Query: 5237 agttgggttaga 5247

|||||
Sbjct: 6330741 agttgggttaga 6330751

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682

|||||
Sbjct: 11154077 gccttatcccactaggtgaggttggtacatggatca 11154041

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 6434 tttgtatttttattttatttgattattataataacata 6470

|||||
Sbjct: 26167231 tttgtatgtttattttatttgattattaaaataacata 26167195

Score = 56.0 bits (28), Expect = 1e-04
Identities = 28/28 (100%)
Strand = Plus / Plus

Query: 5541 attgaacttttttttaaaaaaaaaaaaaa 5568

|||||
Sbjct: 6279671 attgaacttttttttaaaaaaaaaaaaaa 6279698

Score = 56.0 bits (28), Expect = 1e-04
Identities = 43/48 (89%)
Strand = Plus / Plus

Query: 5165 atatacattagaaatTTtagtgTTtatTTtagtgaaattaattatTTT 5212
||||| ||||||||||||||||||||| || | | |||||||||||||
Sbjct: 7055885 atatatattagaaatTTtagtgTTtatataataatattaattatTTT 7055932

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 5296 cattaatTTTaaattaatttgTaaaatatatTTTtgaaaaaaaa 5339
||||| |||||||||||||||| ||| | |||||||||||||||||
Sbjct: 8893340 cattaatTTTaaattaattcataacacatatTTTtgaaaaaaaa 8893297

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 653 agagtgatgTTtgatgaattaaacttaagattggTTgaagttat 696
||||| ||||||| ||||||||||||||| || |||||||||||||
Sbjct: 36337246 agagtgacgTTtgattaattaaacttaagTTTtgTTgaagttat 36337203

Score = 52.0 bits (26), Expect = 0.002
Identities = 107/133 (80%), Gaps = 2/133 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgTTacaaaatTTtattatctaaatTTgcatgcacaataaatatacattaga
5176
||||| ||| | ||||||||||||||| ||||||| || || ||| ||||||| | |
Sbjct: 6332299 aaaattaattatgacaaaatTTtattatgtaaatTTtatatatgcattaagtatacatgaaa
6332358

Query: 5177 aatTTtagtgTTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
| ||||||||||||| | || | ||||||||||||| ||||||||||||| ||||| |
Sbjct: 6332359 atTTTtagtgTTtatctataacaacattaattatTT--taacataattgacttattaactt
6332416

Query: 5237 agttgggtagagc 5249
|||||||
Sbjct: 6332417 agttgggtagagc 6332429

Score = 52.0 bits (26), Expect = 0.002
Identities = 47/54 (87%)
Strand = Plus / Plus

Query: 5179 ttttagtggttatatttagtgaaattaattatattataacataattgatgtatta 5232
||||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7044024 ttttagtggttacatatagtgacattaattatattataacataattcatttatta 7044077

Score = 52.0 bits (26), Expect = 0.002
Identities = 48/54 (88%), Gaps = 1/54 (1%)
Strand = Plus / Minus

Query: 5566 aaacaagtaataaaaaaact-atgaaccaaataagagtaattttataactattta 5618
||||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7400542 aaacaagtaataaaaaaatcatgtatcaaaatagagtgattttaaaactattta 7400489

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 5540 tattgaacttttttttaaaaaaaaaaaaaaac 5569
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 17414292 tattgatcttttttttaaaaaaaaaaaaaaac 17414263

Score = 52.0 bits (26), Expect = 0.002
Identities = 44/50 (88%)
Strand = Plus / Plus

Query: 6937 caacatgagaacaaaacatgtgcattttttgaaatttgccacagtcacac 6986
||||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 17676676 caacatgagaacaaagcatgttcaaattttggaatttgccacagtcacac 17676725

Score = 50.1 bits (25), Expect = 0.007

Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 6561 aaattacaaacaatagaacaaaatatttaaatt 6593
|||||||
Sbjct: 3098156 aaattacaaacaatataacataatatttaaatt 3098188

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacaag 5572
|||||||
Sbjct: 4044619 ttttttttaaaaaaaaaaaaaacaag 4044643

Score = 50.1 bits (25), Expect = 0.007
Identities = 88/109 (80%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
|||||||
Sbjct: 7043872 aaaattaattgttaacaaaatttattatgtaaatttatatgtgttttaaatttacattaga
7043813

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
|||||||
Sbjct: 7043812 aattttggtattacatataacgacgttaattatttggttaacataattga 7043764

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaaac 5569
|||||||
Sbjct: 9717429 aacttttttttaaaaaaaaaaaaaaac 9717405

Score = 50.1 bits (25), Expect = 0.007
Identities = 55/65 (84%)
Strand = Plus / Plus

Query: 6602 tacaacaaaaatTTTaaaatacaaacAaatatggcataaaaattaatgttggtggcctgagc
6661
 ||||| ||| ||| ||||| ||||| | | || | ||||| |||||
Sbjct: 17676312 tacaacaaaaatTTTacaacacacaaacAaatatggcatacattcaacgatgttggttgagc
17676371

Query: 6662 ctaca 6666
 |||||
Sbjct: 17676372 ctaca 17676376

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 5166 tatacattagaaatTTtagtggtat 5190
 ||||| ||||| |||||
Sbjct: 21669883 tatacattagaaatTTtagtggtat 21669907

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||| ||||| |||||
Sbjct: 28432057 gccttatcccactatgtgaggtcggctacatgaatca 28432093

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5201 attaatTatTTTataacataattgatgtatta 5232
 ||||| ||||| |||||
Sbjct: 2431612 attaatTatTTTataatataattgatttatta 2431643

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/52 (86%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattt 6729
|||| ||| |||||||||||||||||| ||| ||||| | |||||||||
Sbjct: 5466996 atgcaacatatggaacatcattttgggtgacccaattctcgaatatccattt 5466945

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Minus

Query: 5291 tggatcattaattttaaattaatttgtaaaatatatTTTT 5330
||||| |||||||||||||||||| |||| | |||||||
Sbjct: 7056429 tggattattaattttaaattaattcgtaacacatatTTTT 7056390

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/52 (86%)
Strand = Plus / Minus

Query: 7297 ccccatcgccagccaccatcccatgcgagagtcacttttcttgtggaatct 7348
||||||| | |||||| ||||||||||||| | ||||||| |||||||
Sbjct: 26166348 ccccatcgtcgggccaccgtcccatgcgagagtttatttttcttgcggaatct 26166297

Score = 48.1 bits (24), Expect = 0.026
Identities = 90/111 (81%), Gaps = 2/111 (1%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt 6737
||||||||| | |||||| ||||||| | | |||| | ||||||||||||| ||
Sbjct: 26926630 atgcgacacacgaaacatcgcttgggtgatccggttctcgaatatccattttggtatgg 26926689

Query: 6738 atacgagaggagacat--gacaacctttagaatttcttttcatttttgggt 6786
||||||| ||||| || ||||| | |||| | ||||||| |||||||
Sbjct: 26926690 atacgagtggagagataggacaatccttagtacttcttttcttttttgggt 26926740

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattat 5143
||||||||||| |||||||||

Sbjct: 32701658 aaaaattaattgtcacaaaatttattat 32701685

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattat 5143
|||||
Sbjct: 32727969 aaaaattaattgtcacaaaatttattat 32727996

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaagtaataaaaaa 5582
|||||
Sbjct: 5010596 ttttttttaaaaaaaaaaaaaaagcaatgaaaaa 5010562

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
|||||
Sbjct: 6332062 aaaattaattgtcactaaatttattatttaaattt 6332028

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
|||||
Sbjct: 6388028 aaaattaattgtcactaaatttattatttaaattt 6387994

Score = 46.1 bits (23), Expect = 0.10
Identities = 35/39 (89%)
Strand = Plus / Minus

Query: 5302 ttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
 ||||| ||||| | ||||| |||||
Sbjct: 6768471 ttttaaattaattcgtaacaaatatattttcaaaaaaaaaa 6768433

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaattt 5151
 ||||| ||| ||||| ||||| |||||
Sbjct: 7055780 aaaattaattattataaaatttattatataaaattt 7055746

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggat 1680
 ||||| ||||| ||||| ||||| |||||
Sbjct: 15741294 gccttggtcccacttggtgaggtcggctacatggat 15741328

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 ||||| | ||||| ||||| ||||| |||||
Sbjct: 17676157 acaagttcaattgaactaaaatatttaaatt 17676187

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| ||||| |||||
Sbjct: 24583203 acttttttttaaaaaaaaaaaaaa 24583225

Score = 46.1 bits (23), Expect = 0.10

Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 7308 gccaccatcccatgcgagagtcacttttct 7338
||||| ||||||||||||||| |||||
Sbjct: 26927280 gccaccttcccatgcgagagtcatttttct 26927310

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 2794 taacttactttatttaaattcatataaa 2820
||||| ||||||||||||||| |||||
Sbjct: 28782604 taacttattttatttaaattcatataaa 28782578

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatattttt 5330
||||| ||||||||||||||| |||||
Sbjct: 32592753 attaatttgtaaaatatattttt 32592775

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
||||| ||||||||||||||| |||||
Sbjct: 240060 ttttttttaaaaaaaaaaaaaaac 240081

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtc 1668
||||| ||||||||||||||| |||||
Sbjct: 4671419 aacgccttatcccactagatggggtc 4671394

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 5322 tatatTTTTgaaaaaaaaattataaaaaaa 5351
 ||||| ||||| ||||| |||||
Sbjct: 6521742 tatatTTTTtaaaaaataattataaaaaaa 6521771

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Plus

Query: 5304 ttaaattaatttgtaaaatatatTTTTgaaaaaaaaat 5341
 ||||| ||||| | ||||| ||||| ||||| |||||
Sbjct: 8115921 ttaaaataatttatcaaatatatTTTTgataaaaaaat 8115958

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Minus

Query: 6205 atTTTTTTTTTcaaaaccaagttaagaaatcggttcct 6242
 ||||| ||||| ||| ||||| ||||| ||||| |||||
Sbjct: 11431944 atTTTTTTTTTacaacaccatgttatgaaatcggttcct 11431907

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggtcggtacatggat 1680
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15022259 ccttatcccactaggtgaggttgccacatggat 15022226

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5545 aactTTTTTTTTtaaaaaaaaaaa 5566
 ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 25566709 aactttttttttaaaaaaaaaa 25566688

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5568
|||||
Sbjct: 26164258 ctttttttttaaaaaaaaaa 26164237

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6191 atttcaaaatgttcattttttt 6212
|||||
Sbjct: 27434173 atttcaaaatgttcattttttt 27434152

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5568
|||||
Sbjct: 27723998 ctttttttttaaaaaaaaaa 27723977

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaac 5569
|||||
Sbjct: 28315436 ttttttttaaaaaaaaaaac 28315415

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||||
Sbjct: 30270112 tttttttttaaaaaaaaaaaaaaac 30270091

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 5308 attaatTTgtaaaatatatttttgaaaaaa 5337
 |||||||||||||| ||||||| |||||
Sbjct: 32728138 attaatTTgtaaaacatatatttttaaaaaaa 32728167

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 6292 tttgtatttttattttttttgttattaatt 6321
 |||||||||| |||||||||| |||||
Sbjct: 34286633 tttgtatttttcattttttttgtttttaatt 34286604

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 1647 cttatcccactaggtggggctcggtacatggat 1680
 |||||||||||||| || || |||||||
Sbjct: 35997870 cttatcccactaggtgaggttggttacatggat 35997903

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgg 1664
 ||||||||||||||||||||
Sbjct: 36041703 aacgccttatcccactaggtgg 36041682

Score = 44.1 bits (22), Expect = 0.41

Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtgggggt 1667
 |||||||
Sbjct: 36420398 gccttatcccactaggtgggggt 36420419

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtgggggtcggctacatgg 1678
 ||||||| ||||| ||| |||||
Sbjct: 280323 gccttatcccattaggtgaggttggtacatgg 280291

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5551 tttttaaaaaaaaaaaaaacaagtaa 5575
 ||||| |||||
Sbjct: 607008 tttttgaaaaaaaaaaaaacaagtaa 607032

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 643074 ttttttttaaaaaaaaaaaaaa 643094

Score = 42.1 bits (21), Expect = 1.6
Identities = 39/45 (86%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattagttcagttgggta 5245
 ||||||| ||||| || ||||| ||| |||||
Sbjct: 2431960 attaattattttataatataattaatttattaactcaattgggta 2432004

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 2926342 tttttttttaaaaaaaaaaaaaa 2926322

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5551 tttttaaaaaaaaaaaaaaaca 5571
 ||||||||||||||||||
Sbjct: 3080043 tttttaaaaaaaaaaaaaaaca 3080063

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5769 taaactttaattgaaaaataa 5789
 ||||||||||||||||||
Sbjct: 3627790 taaactttaattgaaaaataa 3627770

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 3966674 tttttttttaaaaaaaaaaaaaa 3966694

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6047 ttatccaaataataaaaaaaaaatta 6071
 |||| ||||||||||||||||||

Sbjct: 4378902 ttatacaaataataaaaaaaaaaatta 4378926

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 4804995 tttttttttaaaaaaaaaaaaaa 4805015

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5297 attaatTTTTaaattaatttgtaaaatatatTTT 5329
||||| |||
Sbjct: 7056003 attaatTTTTaaattatcttataaaatatatTTT 7056035

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 7648428 tttttttttaaaaaaaaaaaaaa 7648408

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 8171254 tttttttttaaaaaaaaaaaaaa 8171274

Score = 42.1 bits (21), Expect = 1.6
Identities = 39/45 (86%)
Strand = Plus / Plus

Query: 5577 aaaaaactatgaaccaaataagagtaattttataactatttatat 5621
 ||||| | ||||| || || ||||| |||||
Sbjct: 14508092 aaaaaactaagtaccaaagtagtgatgtgattttaaaactatttatat 14508136

Score = 42.1 bits (21), Expect = 1.6
Identities = 36/41 (87%)
Strand = Plus / Plus

Query: 7308 gccaccatcccatgcgagagtccacttttcttggtggaatct 7348
 ||||| ||||| ||||| | ||||| | |||||
Sbjct: 17677032 gccaccatctcatgcgagagtctatttttctcgcggaatct 17677072

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaa 5566
 ||||| ||||| ||||| |||||
Sbjct: 18124603 actttttttttaaaaaaaaaaaaa 18124583

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| |||||
Sbjct: 18163224 tttttttttaaaaaaaaaaaaaaa 18163204

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaacaagtaataaaaa 5580
 ||||| ||||| ||||| || |||||
Sbjct: 18163209 tttttttttaaaaaaaaaaacaacaaatagtaaaaa 18163241

Score = 42.1 bits (21), Expect = 1.6

Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 5556 aaaaaaaaaaaaaacaagtaataaaaaaact 5584
|||||||
Sbjct: 19821064 aaaaaaaaaaaaaacaagaaagaaaaaact 19821036

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4882 tttcttttatttttattttgt 4902
|||||||
Sbjct: 20624467 tttcttttatttttattttgt 20624487

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 20864647 ttttttttaaaaaaaaaaaaaa 20864627

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaa 5565
|||||||
Sbjct: 23962348 aacttttttttaaaaaaaaaaaaa 23962328

Score = 42.1 bits (21), Expect = 1.6
Identities = 66/81 (81%)
Strand = Plus / Plus

Query: 6934 caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
6993
|||||||
Sbjct: 26926889 caacaacatgagaacaaggcatgtgtaacttctggaattttccacagtgacaccacattt
26926948

Query: 6994 catctagcttgaccatgaaat 7014
 ||||| || | || |||||
Sbjct: 26926949 catctagcctaaccgtgaaat 26926969

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 4427 taagataatagttcaattttttttt 4451
 ||||| ||||| ||||| |||||
Sbjct: 27796554 taagataatatttcaattttttttt 27796578

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5321 atatatttttgaaaaaaaaattata 5345
 ||||| ||||| ||||| ||||| |||||
Sbjct: 28783116 atatatttttgaaaaaaaaaatata 28783140

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaat 5352
 ||||| ||||| ||||| ||||| |||||
Sbjct: 29059240 aaaaaaaaaattataaaaaaat 29059260

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| ||||| |||||
Sbjct: 29097474 ttttttttaaaaaaaaaaaaaa 29097494

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6284 taaaattgtttgtatttttattttt 6308
|||||||
Sbjct: 29504464 taaaattgtttatatttttattttt 29504488

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 2580 taaataatatTTTTTTTcttt 2600
|||||||
Sbjct: 29726611 taaataatatTTTTTTTcttt 29726591

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 30270097 ttttttttaaaaaaaaaaaaaa 30270117

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6298 tttttatTTTTTTTgttatta 6318
|||||||
Sbjct: 30584084 tttttatTTTTTTTgttatta 30584064

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaa 5565
|||||||
Sbjct: 30751197 aacttttttttaaaaaaaaaaaaa 30751177

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 30775034 ctttttttttaaaaaaaaaaaaaa 30775054

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5565
|||||
Sbjct: 31503199 aacttttttttaaaaaaaaaaaaaa 31503179

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtg 1663
|||||
Sbjct: 31887311 aacgccttatcccactaggtg 31887331

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattta 6511
|||||
Sbjct: 32043292 aaattaaaaaatatatattta 32043272

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattta 6511

```
          |||||
Sbjct: 32080812 aaattaaaaaatatatattta 32080792
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 33967611 ttttttttaaaaaaaaaaaaaa 33967591
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5332      aaaaaaaaaattataaaaaaat 5352
                |||||
Sbjct: 34177649 aaaaaaaaaattataaaaaaat 34177629
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5332      aaaaaaaaaattataaaaaaat 5352
                |||||
Sbjct: 34497644 aaaaaaaaaattataaaaaaat 34497624
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 6266      ttttttttgttttgttttaa 6286
                |||||
Sbjct: 35222050 ttttttttgttttgttttaa 35222030
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 36219669 ctttttttttaaaaaaaaaaaaaa 36219649

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5201 attaattatttttataacataattga 5225
 |||| |
Sbjct: 36464079 attatttatttttataacataattga 36464055

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5541 attgaacttttttttaaaaaaaaaaaaa 5565
 |||||
Sbjct: 37072696 attgaacttttttttaaaaaaaaaaaaa 37072672

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5292 ggatcattaatttttaaattaatttgtaa 5319
 |||| |
Sbjct: 371292 ggataattaatttttaaattaatttcgtaa 371319

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6297 atttttatttttttttgttat 6316
 |||||
Sbjct: 1184703 atttttatttttttttgttat 1184722

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 1199 atacctttctcggccttttggctaagat 1226
 ||||| ||||||||||||||||||| |||||
Sbjct: 1337919 atacttttctcggccttttggcaaagat 1337946

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||
Sbjct: 1633405 tttttttttaaaaaaaaaaaaaa 1633386

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaac 5569
 ||||||||||| |||||||||||
Sbjct: 1685176 acttttttttataaaaaaaaaaaaaac 1685199

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||
Sbjct: 2160029 tttttttttaaaaaaaaaaaaaa 2160010

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||
Sbjct: 2160014 tttttttttaaaaaaaaaaaaaa 2160033

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5995 atcgaaaaagaaaaaagaaa 6014
|||||||
Sbjct: 2446900 atcgaaaaagaaaaaagaaa 2446919

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttatttt 4900
|||||||
Sbjct: 2580269 ttttcttttatttttatttt 2580250

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
|||||||
Sbjct: 2669732 tttttttttaaaaaaaaaaaaa 2669713

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5566
|||||||
Sbjct: 2877165 ctttttttttaaaaaaaaaaaaa 2877146

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567

|||||
Sbjct: 3428273 ttttttttaaaaaaaaaaaaaa 3428292

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6197 aaatgttcatttttttttttcaaaa 6220
|||||
Sbjct: 3825338 aaatgttcatttttttttttaaaa 3825315

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 3983635 ttttttttaaaaaaaaaaaaaa 3983654

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 4880 tttttctttttatttttattttggt 4903
|||||
Sbjct: 4204051 tttttatttttatttttattttggt 4204074

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4802 taataattttttatcaatat 4821
|||||
Sbjct: 4572868 taataattttttatcaatat 4572849

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 4848072 ttttttttaaaaaaaaaaaaaa 4848053

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5181 ttagtggttatatttagtgaaattaatta 5208
 |||| |
Sbjct: 5069965 ttaggggttatatttagtaaaattaatta 5069938

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 6085087 ttttttttaaaaaaaaaaaaaa 6085068

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatt 5314
 |||||
Sbjct: 6389012 tcattaatttttaaattaatt 6389031

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5327 ttttgaaaaaaaaaattataa 5346
 |||||
Sbjct: 7743779 ttttgaaaaaaaaaattataa 7743798

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6298 tttttattttttttggttatt 6317
|||||||
Sbjct: 7895935 tttttattttttttggttatt 7895954

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3892 taaaaatgatttttttttaa 3911
|||||||
Sbjct: 7973447 taaaaatgatttttttttaa 7973466

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6441 ttttattttatttgattattataa 6464
|||||||
Sbjct: 8052649 ttttattttatttgattattataa 8052626

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
|||||||
Sbjct: 8171255 ttttttttaaaaaaaaaaaaaa 8171278

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaa 5566
|||||||
Sbjct: 8279001 ctttttttttaaaaaaaaaaaa 8278982

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 8559800 tttttttttaaaaaaaaaaaaaa 8559819

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 8960800 tttttttttaaaaaaaaaaaaaa 8960819

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 9247090 tttttttttaaaaaaaaaaaaaa 9247071

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4878 agtttttcttttatttttat 4897
 ||||||||||||||||||
Sbjct: 9247305 agtttttcttttatttttat 9247286

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6266 ttttttttgttttgtttta 6285

|||||
Sbjct: 10320623 tttttttttgttttgttta 10320604

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 tttttttttgttttgtttt 6284
|||||
Sbjct: 12528125 tttttttttgttttgtttt 12528106

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6493 attaaaaaatatatatttaa 6512
|||||
Sbjct: 15324429 attaaaaaatatatatttaa 15324448

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5782 aaaaataaacttgactatatt 5801
|||||
Sbjct: 15353233 aaaaataaacttgactatatt 15353214

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
|||||
Sbjct: 15369803 ttttttttaaaaaaaaaaaaa 15369784

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 16242402 tttttttttaaaaaaaaaaaaaa 16242383

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 3764 attaatgaaaattcaccaaacaaa 3787
 ||||| |||||||
Sbjct: 16910943 attaaagaaaattcaccaaacaaa 16910966

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6292 tttgtatttttattttttttt 6311
 |||||||
Sbjct: 18629189 tttgtatttttattttttttt 18629208

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||||| |||||||
Sbjct: 20864646 tttttttttaaaaaaaaaaaaaaaca 20864623

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||||| |||||||
Sbjct: 21151782 ttttttttcaaaaaaaaaaaaaaaca 21151759

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 4785 taataataattaataagtaataat 4808
 |||||||||||||||| |||||||
Sbjct: 21237856 taataataattaataattaataat 21237879

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||||
Sbjct: 21633233 tttttttttaaaaaaaaaaaaaa 21633252

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaaaca 5570
 ||||||||||| |||||||||||||
Sbjct: 22305078 cttttttttacaaaaaaaaaaaaaaca 22305101

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5369 atcatacaaatgaaagagggttcacatatatta 5400
 ||||| ||||||| || |||||||||||||
Sbjct: 23785730 atcataaaaatgaatgaaggttcacatatatta 23785761

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5327 ttttgaaaaaaaaaattataa 5346
 |||||||||||||||||||||
Sbjct: 24352032 ttttgaaaaaaaaaattataa 24352013

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 26976697 aaaaaaaattataaaaaaat 26976716

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 27147985 ttttttttaaaaaaaaaaaaa 27148004

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaaaaa 5565
 |||||
Sbjct: 27625978 acttttttttaaaaaaaaaaaaa 27625997

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaa 5564
 |||||
Sbjct: 28047947 aacttttttttaaaaaaaaaaaaa 28047966

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6492 aattaaaaaatatatattta 6511

|||||
Sbjct: 28079947 aattaaaaaatatatattta 28079928

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 28211781 ttttttttaaaaaaaaaaaaaa 28211762

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6434 tttgtatttttattttattt 6453
|||||
Sbjct: 28476396 tttgtatttttattttattt 28476377

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
|||||
Sbjct: 28808911 ttttttttttgttttgtttt 28808930

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5324 tatttttgaaaaaaaaattataaa 5347
||||| |||||
Sbjct: 29407729 tatttttgaataaaaaattataaa 29407752

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6292 tttgtatttttatttttttt 6311
 |||||
Sbjct: 29533699 tttgtatttttatttttttt 29533718

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 29868760 tttttttttaaaaaaaaaaaaa 29868779

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||| |||||
Sbjct: 30744347 ttttttttataaaaaaaaaaaaaaca 30744324

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6592 tttgaaataatacaacaaaa 6611
 |||||
Sbjct: 31315647 tttgaaataatacaacaaaa 31315666

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattttaact 6514
 ||||| |||||
Sbjct: 31396168 aaattaaaaaatatttattttaact 31396191

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5021 taataaattattttatgaat 5040
 |||||
Sbjct: 32099766 taataaattattttatgaat 32099747

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5564
 |||||
Sbjct: 32266705 aacttttttttaaaaaaaaaa 32266686

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5564
 |||||
Sbjct: 32531159 aacttttttttaaaaaaaaaa 32531140

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5555 taaaaaaaaaaaaacaagta 5574
 |||||
Sbjct: 32979269 taaaaaaaaaaaaacaagta 32979250

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5309 ttaatttgtaaaatatatttttga 5332
 |||||
Sbjct: 33043788 ttaatttgtaaaacatatatttttga 33043765

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5309 ttaatttgtaaaatatatttttga 5332
 |||||
Sbjct: 33154935 ttaatttgtaaaacatatatttttga 33154912

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3141 aaataaatgtttatgctata 3160
 |||||
Sbjct: 33254530 aaataaatgtttatgctata 33254549

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4884 tcttttatttttattttggt 4903
 |||||
Sbjct: 33293128 tcttttatttttattttggt 33293147

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6155 tttttatacathtagaaatt 6174
 |||||
Sbjct: 33434408 tttttatacathtagaaatt 33434427

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5027 attattttatgaataaataa 5046

|||||
Sbjct: 35400684 attatatttatgaataaataa 35400665

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6440 tttttattttatttgattattata 6463
|||||
Sbjct: 35758457 tttttattttattttattattata 35758480

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6434 tttgtatttttattttattt 6453
|||||
Sbjct: 37381012 tttgtatttttattttattt 37381031

>[gb|CM000848.1](#) Glycine max chromosome 15, whole genome shotgun sequence
Length = 50939160

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 2955762 aacgccttatcccattaggtggggctcggctacatggatcaacttccgccataatgttcta
2955821

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 2955822 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
2955881

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 2955882 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
2955941

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 2955942 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
2956001

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 2956002 tccaccatcttctctacagtagggcgctactccaaccctctctctaataagcttcatttcta
2956061

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 2956062 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2956121

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 2956122 actttattctcatggttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2956181

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 2956182 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2956241

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 2956242 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2956301

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 2956302 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2956361

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 2956362 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2956421

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 2956422 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2956481

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 2956482 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2956541

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||

Sbjct: 2956542 tctgcaaaaagcatgcatctcggcgctatctcttg 2956576

Score = 1592 bits (803), Expect = 0.0

Identities = 812/815 (99%)

Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 12681739 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
12681680

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 12681679 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
12681620

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 12681619 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
12681560

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

|||||

Sbjct: 12681559 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
12681500

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||

Sbjct: 12681499 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
12681440

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 12681439 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12681380

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 12681379 actttattctcatggttggtctttgaccgtccaacattctgttccgtacaaaatcgccggt
12681320

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 12681319 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
12681260

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 12681259 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
12681200

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 12681199 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
12681140

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 12681139 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
12681080

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 12681079 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
12681020

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 12681019 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
12680960

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||||||||||||||||||||||||||||
Sbjct: 12680959 tctgcaaaaagcatgcatctcggcgctatctcttg 12680925

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
||||||||||||||||||||||||||||||||
Sbjct: 35664784 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
35664843

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
||||||||||||||||||||||||||||||||
Sbjct: 35664844 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
35664903

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
||||||||||||||||||||||||||||||||
Sbjct: 35664904 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
35664963

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
||||||||||||||||||||||||||||||||
Sbjct: 35664964 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
35665023

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
||||||||||||||||||||||||||||||||
Sbjct: 35665024 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
35665083

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 35665084 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
35665143

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 35665144 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
35665203

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 35665204 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
35665263

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 35665264 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
35665323

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 35665324 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
35665383

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 35665384 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
35665443

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 35665444 cattccatatactccgatttgcttctgcttaggcgaaagccatgcgtttctagagctcgt
35665503

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 35665504 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
35665563

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 35665564 tctgcaaaaagcatgcatctcggcgctatctcttg 35665598

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 38307750 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
38307691

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 38307690 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
38307631

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 38307630 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
38307571

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 38307570 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
38307511

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 38307510 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
38307451

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 38307450 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38307391

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 38307390 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
38307331

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 38307330 cttaccgcagtcgcgataaaaactttcccttttagcttgattggtacctttgcatcacataac
38307271

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 38307270 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
38307211

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 38307210 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
38307151

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 38307150 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
38307091

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 38307090 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
38307031

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 38307030 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
38306971

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 38306970 tctgcaaaaagcatgcatctcggcgctatctcttg 38306936

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 39154569 aacgtcttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
39154628

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 39154629 tcaagtatcatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
39154688

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 39154689 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
39154748

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 39154749 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
39154808

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 39154809 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
39154868

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 39154869 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39154928

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

||||| ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 39154929 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
39154988

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

||||| ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 39154989 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
39155048

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

||||| ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 39155049 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
39155108

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 39155109 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
39155168

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 39155169 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
39155228

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 39155229 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
39155288

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 39155289 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
39155348

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 39155349 tctgcaaaaagcatgcatctcggcgctatctcttg 39155383

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggatcggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 1705427 aacgccttatcccactaggtggggatcggtacatggatcaacttccgccataatgttcta
1705368

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 1705367 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1705308

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 1705307 atagtctttttgggtcttctctgtctcgaattgtttgtcttctctccatctgggtctact
1705248

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 1705247 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1705188

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 1705187 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1705128

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 1705127 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1705068

Query: 2003 actttattctcatgttggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 1705067 actttattctcatgttggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
1705008

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 1705007 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
1704948

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 1704947 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
1704888

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 1704887 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
1704828

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 1704827 ataatatggtctcctatccccacctctgagttagaaaccctccttcttttgttgaactta
1704768

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 1704767 cattccatataactccgatttgcttctgcttaggcgaaaagccatgtggttctagagctcgt
1704708

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 1704707 ctccaagtttccaacctctcattcaactcctccctcgactatccaaggaggactatgtca
1704648

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 1704647 tctgcaaaaagcatgcatctcggcgctatctcttg 1704613

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 42436714 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
42436655

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 42436654 tcaagtaccatacttttctatccaaaccattaatttcgagatcctttttgataacctctctt
42436595

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 42436594 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
42436535

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 42436534 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
42436475

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 42436474 tccaccatcttctctacaatatgcgctactccaaccctctctctaatagcttcgtttcta
42436415

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 42436414 attttatcctgtcgagtcttgccacacatccaccgcaacatcctcatctccgctacacct
42436355

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 42436354 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
42436295

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 42436294 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
42436235

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 42436234 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
42436175

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 42436174 tcaatttccccatcatcctgtattatagaccaagatatattaaccgtgtgacttgaggg
42436115

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 42436114 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
42436055

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 42436054 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
42435995

Query: 2363 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 42435994 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
42435935

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 42435934 tctgcaaaaagcatgcatctcggcgctatctcttg 42435900

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 47115618 aacgtcttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
47115559

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 47115558 tcaagtaccgtacttctatccaaatcattaagttcgagatcctttttataacctctctt
47115499

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 47115498 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
47115439

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 47115438 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
47115379

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 47115378 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
47115319

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 47115318 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
47115259

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 47115258 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
47115199

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
2122

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Sbjct: 47115198 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
47115139

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 47115138 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
47115079

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 47115078 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
47115019

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 47115018 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
47114959

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 47114958 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
47114899

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 47114898 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
47114839

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 47114838 tctgcaaaaagcatgcatctcggcgctatctcttg 47114804

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702
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Sbjct: 49916863 aacgccttatcccactaggtgaggtcgggtacatggatcaacttccgccataatgttcta
49916804

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 49916803 tcaagtaccatacttctatccaaatcattaatttcgagatccttttttataacctctctt
49916744

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 49916743 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
49916684

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
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Sbjct: 49916683 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
49916624

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
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Sbjct: 49916623 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
49916564

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 49916563 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
49916504

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 49916503 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
49916444

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 49916443 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
49916384

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 49916383 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
49916324

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 49916323 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
49916264

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 49916263 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
49916204

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 49916203 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
49916144

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 49916143 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
49916084

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 49916083 tctgcaaaaagcatgcatctcggcgctatctcttg 49916049

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 4979781 aacgccttatcccactaggtggggcggttacatggatcaacttccgccataatgttcta
4979722

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 4979721 tcaagtatcatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
4979662

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 4979661 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
4979602

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 4979601 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
4979542

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

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Sbjct: 4979541 tccaccatcttctctacaataggcgctactcccaccctctctctaatagtcttcgtttcta
4979482

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 4979481 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
4979422

Query: 2003 actttattctcatgttggtctttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 4979421 actttattctcatgttggtctttgaccgccccaacattctgttccgtacaaaatcgccggt
4979362

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 4979361 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
4979302

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 4979301 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
4979242

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 4979241 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
4979182

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 4979181 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
4979122

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 4979121 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
4979062

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 4979061 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
4979002

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 4979001 tctgcaaaaagcatgcatctcggcgctatctcttg 4978967

Score = 1568 bits (791), Expect = 0.0
Identities = 806/811 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 9115417 aacgccttatcccactaggtggagtcggctacatggatcaacttccgccataatgttcta
9115476

Query: 1703 tcaagtaccataacttctatccaaaccatttaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 9115477 tcaagtaccataacttctatccaaaccatttaatttcgagatcattttttataacctctctt
9115536

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 9115537 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctctatctgggtctact
9115596

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 9115597 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
9115656

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 9115657 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
9115716

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002

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Sbjct: 9115717 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgtacacct
9115776

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 9115777 actttattctcatgttggtcttgaccgccaacattctgttcggtacaaaatcgccggt
9115836

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 9115837 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
9115896

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 9115897 acccccaatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
9115956

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 9115957 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
9116016

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 9116017 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
9116076

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 9116077 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
9116136

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 9116137 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
9116196

Query: 2423 tctgcaaaaagcatgcatctcggcgctatct 2453
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Sbjct: 9116197 tctgcaaaaagcatgcatctcggcgctatct 9116227

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 48421601 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
48421542

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 48421541 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctttctt
48421482

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 48421481 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
48421422

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatctt
1882

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Sbjct: 48421421 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
48421362

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 48421361 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
48421302

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 48421301 attttatcctgtcgagtcttaccacacacccaccgcaacatcctcatctccgctacacct
48421242

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 48421241 actttattctcatggttggtctcttgaccgtccaacattctgttcggtacaaaatcgccggt
48421182

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 48421181 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
48421122

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 48421121 acccctgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
48421062

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

|||||
Sbjct: 48421061 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
48421002

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 48421001 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
48420942

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 48420941 cattccatataactccgatttgcttctgcttaggcaaaagccatgtgtttctagagctcgt
48420882

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 48420881 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
48420822

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 48420821 tctgcaaaaagcatgcatctcggcgctatctcttg 48420787

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 19059881 aacgccttatcccactaggtggggtcggctacatggatcaacttctgccataatgttcta
19059940

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 19059941 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
19060000

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 19060001 atagtctttttgggtcttctctgctcgaatagtttgtcttctctccatctgggtctact
19060060

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
1882

|||||
Sbjct: 19060061 ctctcactacagagtctaccggtcttctctctacatgcccacacctaaggtctatatt
19060120

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 19060121 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
19060180

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 19060181 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19060240

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 19060241 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
19060300

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 19060301 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
19060360

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 19060361 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
19060420

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 19060421 tcaatttccccatcatcctgtattacaaaccaagatatattaaccgtgtgacttgaggg
19060480

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 19060481 ataatatggtctcctattttcacctttgagttagaaaccctccttcttttgttgaactta
19060540

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 19060541 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
19060600

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 19060601 ctccaagtttccaacctctcaatcaactcctccctcgactctccaaggaggactatgtca
19060660

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 19060661 tctgcaaaaagcatgcatctcggcgctatctcttg 19060695

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 48105512 aacgccttatcccactaggtggggtcggctacatggatcaacttccgtcataatgttcta
48105453

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
| |||||
Sbjct: 48105452 ttaagtaccatacttctatccaaatcattaatttcgagatcctttttgataacctctctt
48105393

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 48105392 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
48105333

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 48105332 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
48105273

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 48105272 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
48105213

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 48105212 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
48105153

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||

Sbjct: 48105152 actttattctcatgttggctcttgaccgcccacattctattccgtacaaaatcgccggt
 48105093

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 48105092 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 48105033

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

|||||
 Sbjct: 48105032 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 48104973

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 48104972 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
 48104913

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 48104912 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 48104853

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 48104852 cattctatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 48104793

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 48104792 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 48104733

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 48104732 tctgcaaaaagcatgcatctcggcgctatctcttg 48104698

Score = 1546 bits (780), Expect = 0.0
 Identities = 807/815 (99%), Gaps = 2/815 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 45300215 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
45300156

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 45300155 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
45300096

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 45300095 atagtctttttgggtcttcctctgccttgaattgt--gtcttctctctatctgggtctact
45300038

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 45300037 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
45299978

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 45299977 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
45299918

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 45299917 attttatcctgtcgagtcttaccagacatccaccacaatatcctcatctccgctacacct
45299858

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 45299857 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
45299798

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 45299797 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
45299738

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 45299737 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
45299678

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 45299677 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
45299618

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 45299617 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
45299558

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 45299557 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
45299498

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 45299497 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
45299438

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 45299437 tctgcaaaaagcatgcatctcggcgctatctcttg 45299403

Score = 1536 bits (775), Expect = 0.0
Identities = 806/815 (98%), Gaps = 1/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 46250673 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
46250732

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 46250733 tcaagtaccatactttctatccaaatcattaagttcgagatcctttttgataacctctctt
46250792

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 46250793 atagtctttttgggtcttcctctacctcgaattgtttgccttctctccatctgggtctact
46250852

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 46250853 atctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
46250912

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 46250913 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcatttcta
46250972

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 46250973 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
46251032

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 46251033 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
46251092

Query: 2063 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 46251093 ctaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
46251152

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 46251153 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
46251212

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 46251213 tcgattttctccatcatcctgtattacagacccaagatattttaa-cgtgtgacttgaggg
46251271

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 46251272 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
46251331

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 46251332 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
46251391

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 46251392 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
46251451

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 46251452 tctgcaaaaagcatgcatctcggcgctatctcttg 46251486

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 48456530 aacgccctatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
48456471

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 48456470 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
48456411

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 48456410 atagtctttttgggtcttcctctgcctcgaattatgttcttctctccatctgggtctact
48456351

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 48456350 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
48456291

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 48456290 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcatttcta
48456231

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 48456230 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
48456171

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 48456170 actttattctcatgttggtccttgacctccaacattctgttccgtacaaaatcgccggt
48456111

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 48456110 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
48456051

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 48456050 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
48455991

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 48455990 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
48455931

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 48455930 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
48455871

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 48455870 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
48455811

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 48455810 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggatgactatgtca
48455751

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 48455750 tctgcaaaaagcatgcatctcggcgctatctcttg 48455716

Score = 1534 bits (774), Expect = 0.0
Identities = 805/814 (98%), Gaps = 1/814 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 15607947 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
15608006

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 15608007 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
15608066

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 15608067 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
15608126

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 15608127 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
15608186

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 15608187 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
15608246

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 15608247 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
15608306

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 15608307 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
15608366

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 15608367 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
15608426

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 15608427 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
15608486

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 15608487 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
15608546

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 15608547 ataatatggtctcctattttcacctctgagttag-aaccctccttctattgttgaactta
15608605

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 15608606 cattccatatacttcgatttgcttctgcttaggcgaaagccgtgtgtttctagagctcgt
15608665

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 15608666 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
15608725

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctctt 2456
|||||
Sbjct: 15608726 tctgcaaaaagcatgcatctcggcgctatctctt 15608759

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 14729853 aacgccttatccactaggtggggcggctatggatcaacttccgtcataatgttcta
14729794

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 14729793 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
14729734

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 14729733 atagtctttttgggtcttctctgcctcgaattgtttgccttcgctccatctgggtctact
14729674

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 14729673 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
14729614

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942
|||||
Sbjct: 14729613 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
14729554

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 14729553 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
14729494

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 14729493 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
14729434

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 14729433 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
14729374

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 14729373 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
14729314

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 14729313 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
14729254

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 14729253 ataatatggtctcctattttcacctctgagttagaaactctccttcttttgttgaactta
14729194

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 14729193 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
14729134

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 14729133 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
14729074

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 14729073 tctgcaaaaagcatgcatctcggcgctatctcttg 14729039

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

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Sbjct: 19610469 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
19610410

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 19610409 tcaagtaccatacttctatccaaatcattaagttcgagatccttctcgataacctctctt
19610350

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

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Sbjct: 19610349 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
19610290

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaaggtctattt
1882

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Sbjct: 19610289 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaaggtctattt
19610230

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggtttcta
1942

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Sbjct: 19610229 tccaccatcttctctacaatagggtgatactccaaccctctctctaatagcttcggtttcta
19610170

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 19610169 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19610110

Query: 2003 actttattctcatggtgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 19610109 actttattctcatggtgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
19610050

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 19610049 cttaccgcagtcgataaaaactttcccttttagcttgattggtacctttgcatcacataac
 19609990

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182

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 Sbjct: 19609989 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 19609930

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

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 Sbjct: 19609929 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 19609870

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
 2302

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 Sbjct: 19609869 ataatatggtctcctattttcacctctgagttagataccctccttcttttgttgaaactta
 19609810

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 19609809 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 19609750

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 19609749 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 19609690

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 19609689 tctgcaaaaagcatgcatctcggcgctatctcttg 19609655

Score = 1529 bits (771), Expect = 0.0
 Identities = 805/815 (98%), Gaps = 1/815 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 40775633 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 40775692

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 40775693 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
40775752

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 40775753 atagtctttttgggtcttcctctgcctcgcattgtttgccttctctccatctggtctact
40775812

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 40775813 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
40775872

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 40775873 ttcaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
40775932

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 40775933 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
40775992

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 40775993 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
40776052

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 40776053 cttaccgcagtc-ataaaaactttccctttagcttgatcggtacctttgcatcacataac
40776111

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 40776112 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
40776171

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 40776172 tcaatttctccatcatcctgtattacagacccaaaatatttaaaccgtgtgacttgaggg
40776231

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 40776232 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
40776291

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 40776292 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
40776351

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 40776352 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
40776411

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 40776412 tctgcaaaaagcatgcatctcggcgctatctcttg 40776446

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 41966629 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
41966688

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 41966689 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
41966748

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 41966749 atagtctttttgggtcttctctgacctgaattgtttgcttctctccatctggtctact
41966808

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 41966809 ctctcactacagagtcgaccggtcttctctctacatgcccaaaccacctaagtctattt
41966868

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 41966869 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
41966928

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 41966929 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacctt
41966988

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcgctacaaaatcgccggt
2062

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Sbjct: 41966989 actttattctcatgttggtctcttgaccgccaacattctattccgctacaaaatcgccggt
41967048

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 41967049 cttatcgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
41967108

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 41967109 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
41967168

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 41967169 tcaatttgtccatcatcctgtattacagaccaaggtatttaaaccgtgtgacttgaggg
41967228

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 41967229 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
41967288

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 41967289 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgt
41967348

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 41967349 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
41967408

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 41967409 tctgcaaaaagcatgcatctcggcgctatctcttg 41967443

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 49879861 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
49879802

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 49879801 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
49879742

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 49879741 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctggtctact
49879682

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 49879681 ctctcactacagagtttaccggtcttctctctacatgcccaaaccacctaagtctattt
49879622

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 49879621 ttcaccatcttctctacaataggcgctactccaactctctctctaatagcttcgtttcta
49879562

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 49879561 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
49879502

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 49879501 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
49879442

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 49879441 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
49879382

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 49879381 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
49879322

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 49879321 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
49879262

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 49879261 ataatatggtctcccattttcacctttgagttagaaaccctccttcttttgttgaactta
49879202

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 49879201 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
49879142

Query: 2363 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 49879141 ctccaagttttccaacctctcattgaactcctccctcgactctccaaggaggactatgtca
 49879082

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 49879081 tctgtaaaaagcatgcatctcggcgctatctcttg 49879047

Score = 1523 bits (768), Expect = 0.0
 Identities = 801/812 (98%)
 Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
 1705

|||||
 Sbjct: 41291501 gccttatcccactagatggggctcggctacatggatcaacttccgccataatgttctatca
 41291442

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
 1765

|||||
 Sbjct: 41291441 agtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctcttata
 41291382

Query: 1766 gtcttttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
 1825

|||||
 Sbjct: 41291381 gtcttttttgggtcttcctctgcctcaaattgtttgccttctctccatctgggtctactctc
 41291322

Query: 1826 ctccactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattttcc
 1885

|||||
 Sbjct: 41291321 ctccactacagagtctaccgggtcttctctctacatgccaaaaccacctaagtctattttcc
 41291262

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagttcggttcttaatt
 1945

|||||
 Sbjct: 41291261 accatcttctctacaataggcgctactccaaccctctctctaatagttcggttcttaatt
 41291202

Query: 1946 ttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
 2005

|||||

Sbjct: 41291201 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
41291142

Query: 2006 ttatttctcatgttggtccttgaccgcccacattctgttccgtacaaaatcgccggtctt
2065

|||||
Sbjct: 41291141 ttatttctcatgttggtccttgaccgcccacattctattatgtacaaaatcgccggtctt
41291082

Query: 2066 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
2125

|||||
Sbjct: 41291081 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
41291022

Query: 2126 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
2185

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Sbjct: 41291021 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
41290962

Query: 2186 atttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
2245

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Sbjct: 41290961 atttctccatcatcctgtattatagaccaagatatttaaaccgtgtgacttgagggata
41290902

Query: 2246 atatggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttacat
2305

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Sbjct: 41290901 atatggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttacat
41290842

Query: 2306 tccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
2365

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Sbjct: 41290841 tccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
41290782

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
2425

|||||
Sbjct: 41290781 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
41290722

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 41290721 gcaaaaagcatgcatctcggcgctatctcttg 41290690

Score = 1521 bits (767), Expect = 0.0
Identities = 803/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 23305923 aacgccttatcccactaggtgggggttggtacatggatcaacttccgccataatgttcta
23305982

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 23305983 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
23306042

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 23306043 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
23306102

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 23306103 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
23306162

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
|||||
Sbjct: 23306163 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtccgtttcta
23306222

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 23306223 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
23306282

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 23306283 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
23306342

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 23306343 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
23306402

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 23306403 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
23306462

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 23306463 tcaatttctccatcatcctgtattacagaccaagatatattaaccatgtgacttgaggg
23306522

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 23306523 ataatatggtctcctattttcacctctgagttagataaccctcctacttttgttgaactta
23306582

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 23306583 cattccatataactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
23306642

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 23306643 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
23306702

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 23306703 tctgcaaaaagcatgcatctcggcgctatctcttg 23306737

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccct
2182

Sbjct: 31115178 acccacgatgcttttctccatatcatccatcctgcttgaatgcgatgattcacatccct
 31115237

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 31115238 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 31115297

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 31115298 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 31115357

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 31115358 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 31115417

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 31115418 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 31115477

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 31115478 tctgcaaaaagcatgcatctcggcgctagctcttg 31115512

Score = 1505 bits (759), Expect = 0.0
 Identities = 801/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 48466660 aacgccttatcccactaggtggggctcggctacatagatcaacttccgccataatgttcta
 48466601

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 48466600 tcaagtaccatacttctatccaaatcattaagttcagagatcctttttgataacctctctt
 48466541

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 48466540 atagtctttttgggtcttcctctccctcgaattgtttgccttctctccatctgggtctact
48466481

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 48466480 ctctcactaccgagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
48466421

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 48466420 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
48466361

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 48466360 attttatcctgtcgagtcttaccacatatccaccgcaacatcctcatctccgctacacct
48466301

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|| |||||
Sbjct: 48466300 accttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaatcgctcggt
48466241

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 48466240 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
48466181

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 48466180 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
48466121

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 48466120 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
48466061

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 48466060 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggttgaactta
48466001

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 48466000 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
48465941

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 48465940 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
48465881

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 48465880 tctgcaaaaagcatgcatctcgacgctatctcttg 48465846

Score = 1455 bits (734), Expect = 0.0
Identities = 794/815 (97%), Gaps = 8/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 48485814 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
48485755

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 48485754 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
48485695

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 48485694 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
48485635

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtcatttt
1882

|||||

Sbjct: 48485634 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtatattt
48485575

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 48485574 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
48485515

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 48485514 attttatcctgtcgagtcttaccacacatccaccgcaacatcctc-----tacacct
48485463

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 48485462 actttggtctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
48485403

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 48485402 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
48485343

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 48485342 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
48485283

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccggtgtgacttgaggg
2242

|||||
Sbjct: 48485282 tcaatttctccatcatcctgtattacagaccaagatatattaaccggtgtgacttgaggg
48485223

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 48485222 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
48485163

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 48485162 cattccatataactccgatttgcttctgcttaggcgaaagtcagtgtttctagagctcgt
48485103

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 48485102 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
48485043

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 48485042 tctgcaaaaagcatgcatctcggcactatctcttg 48485008

Score = 1423 bits (718), Expect = 0.0
Identities = 799/818 (97%), Gaps = 6/818 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 10294357 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
10294416

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|| |||||
Sbjct: 10294417 tccagtaccatacttctatccaaatcattaagttcgagatccttcttgataaacttctctt
10294476

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 10294477 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
10294536

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtcattt
1882

|||||
Sbjct: 10294537 ctctcactacagagtctatcggtcttctctctacatgcccacacctaagtcattt
10294596

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 10294597 tccaccatcttctgtacaataggcgctactccaaccctctctctaatagcttcgtttcta
10294656

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 10294657 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
10294716

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 10294717 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
10294776

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 10294777 cttaccgcagtcgcat-aaactttccctttagcttgatcggtacctttgcatcacataac
10294835

Query: 2123 acccccgatgc-ttttctccatttcacatcctgcttgaatgcatgattcacatcccc
2181

| |||||
Sbjct: 10294836 atccccgatgctttttctccatttcacatcctgcttgaatgcatgattcacatcccc
10294895

Query: 2182 ttcaatttccccatcatcctgtattacagaccaagatatttaaa-ccgtgtgacttgag
2240

|||||
Sbjct: 10294896 ttcaatttctccatcatcctgtattacagaccaagatatttaaaaccgtgtgacttgag
10294955

Query: 2241 ggat-aatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaac
2299

|||| |
Sbjct: 10294956 ggataaatatggtctcctattttcacctctgagttag-atccctccttcttttggtg-ac
10295013

Query: 2300 ttacattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagct
2359

|||||
Sbjct: 10295014 ttacattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagtt
10295073

Query: 2360 cgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatg
2419

|||||
Sbjct: 10295074 cgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatg
10295133

[illegible]

Sbjct: 32284468 actttattctcatgttggctcttgactgcccacattctgttccatacaaaatcgccggt
32284527

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 32284528 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
32284587

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 32284588 acccccaatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
32284647

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaacc 2228
|||||
Sbjct: 32284648 tcaatttcccatcatcctgtattacagaccaagatatttaaacc 32284693

Score = 1057 bits (533), Expect = 0.0
Identities = 542/545 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 43014497 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
43014556

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 43014557 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
43014616

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 43014617 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
43014676

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

||
Sbjct: 43014677 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
43014736

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 43014737 tccaccatcttctctacaataggcgctactccaaccatctctctaataagcttcgtttcta
 43014796

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 43014797 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 43014856

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 43014857 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
 43014916

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 2122
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 43014917 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 43014976

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 43014977 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 43015036

Query: 2183 tcaat 2187
 |||||
 Sbjct: 43015037 tcaat 43015041

Score = 1023 bits (516), Expect = 0.0
 Identities = 540/548 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgtttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 27079768 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgtttcta
 27079709

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
Sbjct: 27079708 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
27079649

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 27079648 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
27079589

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 27079588 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
27079529

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 27079528 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
27079469

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 27079468 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27079409

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 27079408 acttttagtctcatgttgggtcttgaccgccaacattctgttctgtacaaaatcgctgggt
27079349

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 27079348 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
27079289

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 27079288 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
27079229

Query: 2183 tcaatttc 2190

|||||
Sbjct: 27079228 tcaatttc 27079221

Score = 977 bits (493), Expect = 0.0
Identities = 514/521 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 21204226 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgtttta
21204167

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 21204166 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
21204107

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 21204106 atagtctttttagggtcttctctgcctcgaatagttgtcttctctccatctgggtctact
21204047

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 21204046 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
21203987

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 21203986 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
21203927

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 21203926 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
21203867

Query: 2003 actttattctcatgttgggtcttggaccgccaacatttctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 21203866 actttattctcatgttgggtcttggaccgccaacatttctgttccgtacaaaatcgccgggt
21203807

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 21203806 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
21203747

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaat 2163
|||||
Sbjct: 21203746 acccccgatgcttttctccatttcatccatcctgcttgaat 21203706

Score = 936 bits (472), Expect = 0.0
Identities = 490/496 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggcgcggtacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 12079524 aacgccttatccactaggtggggcgcggtacatggatcaacttccgctcataatgttcta
12079583

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762
|||||
Sbjct: 12079584 tcaagtatcatacttctatccaaaccattaatttcgagatcctttttataaacctctctt
12079643

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 12079644 atagtctttttgggtcttctctgcctcaaattgtttgtcttctctccatctgggtctact
12079703

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctattt
1882
|||||
Sbjct: 12079704 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctattt
12079763

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggtttcta
1942
|||||
Sbjct: 12079764 tccaccatcttctctacaataggcgctactcccaccctctctctaatagcttcggtttcta
12079823

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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|||||
Sbjct: 12079824 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
12079883

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Query: 2003      actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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|||||
Sbjct: 12079884 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
12079943

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Query: 2063      cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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|||||
Sbjct: 12079944 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
12080003

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Query: 2123      acccccgatgcttttc 2138
|||||
Sbjct: 12080004 acccccgatgcttttc 12080019

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Score = 850 bits (429), Expect = 0.0
Identities = 444/449 (98%)
Strand = Plus / Plus

```

Query: 1643      aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatggttcta
1702

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|||||
Sbjct: 33341272 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatggttcta
33341331

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Query: 1703      tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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|||||
Sbjct: 33341332 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
33341391

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Query: 1763      atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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|||||
Sbjct: 33341392 atagtctttttgggtcttcctctgcctcgaattttttgccttctctccatctggtctact
33341451

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Query: 1823      ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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|||||
Sbjct: 33341452 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
33341511

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Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 33341512 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
33341571

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 33341572 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
33341631

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 33341632 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
33341691

Query: 2063 cttaccgcagtcgcgataaaaactttccctt 2091

|||||
Sbjct: 33341692 cttaccgcagtcgcgataaaaactttccctt 33341720

Score = 799 bits (403), Expect = 0.0
Identities = 436/447 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 15479846 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
15479905

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

|||||
Sbjct: 15479906 tcaagtaccatacttctatccaaatcattaagtttgagatccttcttgataaacctctctt
15479965

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 15479966 atagtctttttgggttttcctcttcctcgaattgtttgccttctctccatctgggtctact
15480025

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctat
 1882

|||||
 Sbjct: 15480026 ctctcactacagagtctaccggtcttctctctacatacccaaaccacctaagtctat
 15480085

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

|||||
 Sbjct: 15480086 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 15480145

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 15480146 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 15480205

Query: 2003 actttattctcatggttggtcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 15480206 actttagtctcatggttggtcttgaccgccaacattctgttccgtacaaaatcaccggt
 15480265

Query: 2063 cttaccgcagtcgataaaaactttccc 2089

|||||
 Sbjct: 15480266 cttaccgcagtcgataaaaactttccc 15480292

Score = 787 bits (397), Expect = 0.0
 Identities = 409/413 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 13813630 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 13813689

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 13813690 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 13813749

Query: 1763 atagtctttttgggtcttctctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||

Sbjct: 13813750 atagtttttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
 13813809

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 1882

|||||
 Sbjct: 13813810 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 13813869

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagttcgtttcta
 1942

|||||
 Sbjct: 13813870 tccaccatcttctctacaatagacgctactccaaccctctctctaataagttcgtttcta
 13813929

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 13813930 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 13813989

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaat 2055
 |||||

Sbjct: 13813990 actttattctcatgttgggtcttgaccgccaacattttgttccgtacaaaat
 13814042

Score = 704 bits (355), Expect = 0.0
 Identities = 425/445 (95%), Gaps = 5/445 (1%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggatcggtacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 1195279 aacgccttatcccactaggtggggatcggtacatggatcaacttccgccataatgttcta
 1195220

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttggataacctctctt
 1762

|||||
 Sbjct: 1195219 tcaagtaccata-ttctatccaaatcattaagttcgagatccttcttggataacctctctt
 1195161

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 1195160 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
 1195101

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatctt
 1882

|||||
 Sbjct: 1195100 ctcttcactatagagtctaccggtcttctctctacatgtccaaaccacctaagtctatctt
 1195041

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
 1942

|||||
 Sbjct: 1195040 tccaccatcttctctacaatagacgctactccaaccctctctttaataagctccggtttcta
 1194981

Query: 1943 attttatcctgtcgagtcttaccacacatc--caccgcaacatcctcatctccgctacac
 2000

|||||
 Sbjct: 1194980 attttatcctgtcgagtcttaccacacatccacaccgcaacatcctcatctccgctacac
 1194921

Query: 2001 ctactttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccg
 2060

|||||
 Sbjct: 1194920 ctactttagtctcatgttggtcttgaccgcccacattctgttccatacaaaaatcgccg
 1194861

Query: 2061 gtcttaccgcagtcgataaaaactt 2085

|||||
 Sbjct: 1194860 gtcttac--cagttcgataaaaactt 1194838

Score = 678 bits (342), Expect = 0.0
 Identities = 387/402 (96%)
 Strand = Plus / Minus

Query: 1646 gccttatcccactaggtgggggtcggtacatggatcaacttccgccataatgttctatca
 1705

|||||
 Sbjct: 47050248 gccttatcccactaggtgggggtcggtacatggatcaacttccgccataatgttctatca
 47050189

Query: 1706 agtaccatacttctatccaaaccattaatctcgagatcctttttgataacctctcttata
 1765

|||||
 Sbjct: 47050188 agtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctcttata
 47050129

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
 1825

|||||
 Sbjct: 47050128 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
 47050069

Query: 1826 ctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
 1885

|||||
 Sbjct: 47050068 ctcattacagagtttaccggtcttctctctacatgctcaaaccacctaagtctattttcc
 47050009

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctaatt
 1945

|||||
 Sbjct: 47050008 accatcttctctacaatagggtgctactccaaccctctctctaataatttccgtttctaatt
 47049949

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
 2005

|||||
 Sbjct: 47049948 ttatcctgtcgagtcttaccactcattcatcgcaacatcctcatctccgctacacctact
 47049889

Query: 2006 ttattctcatgttggtctttgaccgccaacattctgttccg 2047

|||
 Sbjct: 47049888 ttagtctcatgttggtctttgaccgccaacattctgttccg 47049847

Score = 656 bits (331), Expect = 0.0
 Identities = 343/347 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 49083091 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 49083150

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 49083151 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 49083210

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||

Sbjct: 49083211 atagtctttttgggtcttctctgctcgaattgtttgccttctctccatctggtctact
49083270

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 49083271 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
49083330

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 49083331 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcatttcta
49083390

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcat 1989

|||||
Sbjct: 49083391 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcat 49083437

Score = 607 bits (306), Expect = e-170
Identities = 324/330 (98%)
Strand = Plus / Minus

Query: 1944 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
2003

|||||
Sbjct: 5559801 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
5559742

Query: 2004 ctttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccgggtc
2063

|||||
Sbjct: 5559741 ctttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccgggtc
5559682

Query: 2064 ttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataaca
2123

|||||
Sbjct: 5559681 ttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataaca
5559622

Query: 2124 cccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccctt
2183

|
Sbjct: 5559621 ctcccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccctt
5559562

Query: 2184 caatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggga
2243
||||| |||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 5559561 caatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggaa
5559502

Query: 2244 taatatgggtctcctattttcacctctgagt 2273
||||| |||||||||||||||||||
Sbjct: 5559501 taatatgggtctcctattttcacctatgagt 5559472

Score = 575 bits (290), Expect = e-161
Identities = 293/294 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702
||||| |||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 40786776 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
40786835

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
||||| |||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 40786836 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
40786895

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
||||| |||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 40786896 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40786955

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctatatt
1882
||||| |||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 40786956 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctatatt
40787015

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcg 1936
||||| |||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 40787016 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcg
40787069

Score = 563 bits (284), Expect = e-157

Identities = 293/296 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 4418445 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
4418386

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 4418385 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
4418326

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgctctctccatctgggtctact
1822

|||||
Sbjct: 4418325 atagtctttttgggtcttcctctgcctcgaattggttgctctctccatctgggtctact
4418266

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 4418265 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
4418206

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggt 1938

| |||||
Sbjct: 4418205 ttcaccatcttctctacaataggcgctactccaatcctctctctaataagcttcggt
4418150

Score = 561 bits (283), Expect = e-157
Identities = 298/303 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 25003143 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
25003084

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 25003083 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
25003024

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 25003023 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
25002964

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 25002963 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
25002904

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 25002903 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
25002844

Query: 1943 att 1945
|||

Sbjct: 25002843 att 25002841

Score = 531 bits (268), Expect = e-148
Identities = 277/280 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 37096379 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
37096438

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

|||||
Sbjct: 37096439 tcaagtaccagacttctatccaaatcattaagttcgagatcctttttgataaacctctctt
37096498

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 37096499 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
37096558

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 37096559 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 37096618

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctct 1922

|||||
 Sbjct: 37096619 tccaccatcttctctacaataggcgctactccaaccctct 37096658

Score = 510 bits (257), Expect = e-141
 Identities = 278/285 (97%), Gaps = 5/285 (1%)
 Strand = Plus / Minus

Query: 1735 ttcgagatcctttttgataacctctcttatagtccttttgggtcttcctctgcctcgaat
 1794

|||||
 Sbjct: 8676265 ttcgagatcctttttgataacctctcttatagtccttttgggtcttcctctgcctcgaat
 8676206

Query: 1795 tgtttgtcttctctccatctgggtctactctcctc-----actacagagtctaccggtctt
 1849

|||||
 Sbjct: 8676205 tgtttgtcttctctccatctgggtctactctcctctcctcactacagagtctaccggtctt
 8676146

Query: 1850 ctctctacatgcccaaaccacctaagtctattttccaccatcttctctacaataggcgct
 1909

|||||
 Sbjct: 8676145 ctctctacatgcccaaaccacctaagtctattttccaccatcttctctacaataggcgct
 8676086

Query: 1910 actccaaccctctctctaataagcttcgtttctaattttatcctgtcgagtcttaccacac
 1969

|||||
 Sbjct: 8676085 actccaaccctctctctaataagcttcgtttctaattttatcatgtcgagtcttaccacac
 8676026

Query: 1970 atccaccgcaacatcctcatctccgctacacctactttatttctca 2014

|||||
 Sbjct: 8676025 atccaccgcaacatcctcatctccgctacacctactttatttctca 8675981

Score = 506 bits (255), Expect = e-140
 Identities = 267/271 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 26714838 aacgccttatcccactaggtgggggttggctacatggatcaacttccgccataatgttcta
 26714897

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 26714898 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 26714957

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 26714958 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 26715017

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaaggtctattt
 1882

|||||
 Sbjct: 26715018 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaaggtctattt
 26715077

Query: 1883 tccaccatcttctctacaataggcgctactc 1913

|||||
 Sbjct: 26715078 tccaccatcttctctacaataggcgctactc 26715108

Score = 430 bits (217), Expect = e-117
 Identities = 248/256 (96%), Gaps = 3/256 (1%)
 Strand = Plus / Plus

Query: 1648 cttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatcaag
 1707

|||||
 Sbjct: 9991552 cttatcccactaggtgggggtcgacgacatggatcaacttccgccataatgttctatcaag
 9991611

Query: 1708 taccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatagt
 1767

|||||
 Sbjct: 9991612 taccatacttctattcaaaccattaatttcgagatccttttttataacctctcttatagt
 9991671

Query: 1768 ctttttgggtcttcctctg-cctcgaattgtttgtcttctctccatctgggtctactctcc
 1826

|||||
 Sbjct: 9991672 ctttttgggtcttcctctgcccctcgaattgtttgtcttctctccatctgggtctactctcc
 9991731

Query: 1827 tcactacaga--gtctaccggtcttctctctacatgcccaaaccacctaagtctattttc
 1884

|||||
 Sbjct: 9991732 tcactacagagtgtgtaccggtcttctctctacatgcccaaaccacctaagtctattttc
 9991791

Query: 1885 caccatcttctctaca 1900

|||||
 Sbjct: 9991792 caccatcttctctaca 9991807

Score = 420 bits (212), Expect = e-114
 Identities = 215/216 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 9605688 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 9605747

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 9605748 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 9605807

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 9605808 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 9605867

Query: 1823 ctccctcactacagagtctaccggtcttctctctaca 1858

|||||
 Sbjct: 9605868 ctccctcactacagagtctaccggtcttctctactaca 9605903

Score = 309 bits (156), Expect = 4e-81
 Identities = 156/156 (100%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 659858 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 659799

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 659798 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 659739

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtt 1798
 |||||
 Sbjct: 659738 atagtctttttgggtcttctctgcctcgaattgtt 659703

Score = 293 bits (148), Expect = 3e-76
 Identities = 204/223 (91%), Gaps = 11/223 (4%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 5560018 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 5559959

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

||| |||||
 Sbjct: 5559958 tcatgtaccatacttctatccaaatcattaagttcaagatccttcttgataacctctctt
 5559899

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgg-----t
 1817

|||||
 Sbjct: 5559898 atagtctttttgggtctt-----cctcgaattgtttgccttctctccatctgggtctact
 5559845

Query: 1818 ctactctcctcactacagagtctaccgggtcttctctctacatg 1860

|||||
 Sbjct: 5559844 ctactctcctcactacagagtctaccagtcttctctctacatg 5559802

Score = 220 bits (111), Expect = 3e-54

Identities = 135/143 (94%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 6051092 aacgccttatcctgctaggtgggggtcggctacatggatcaacttccgccataatgttcta
6051151

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|
Sbjct: 6051152 taaagtaacatatttctatccaaatcattaagttcgagatccttcttgataacctctctt
6051211

Query: 1763 atagtctttttgggtcttcctct 1785
|||||
Sbjct: 6051212 atagtctttttgggtcttcctct 6051234

Score = 202 bits (102), Expect = 7e-49
Identities = 111/114 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 16235252 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
16235193

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacc 1756
|||||

Sbjct: 16235192 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataaacc
16235139

Score = 198 bits (100), Expect = 1e-47
Identities = 181/208 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176

|||||
Sbjct: 5297291 aaaattaattgtcacaaaatttattatataaatttacatgtacattaaataaattaga
5297232

Query: 5177 aat t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236
|||||
Sbjct: 5297231 aat t t t a g t g t t a t a t a t a a c g a c a t t a a c t a t t t t a t a a c a t a a t t g a t c t a t t a g t t c
5297172

Query: 5237 a g t t g g t t a g a g c a t t a t g t t a a t a a t g t g a a a g t c a a a a g t t c a a t t c t t a c t t g g a t c
5296
|||||
Sbjct: 5297171 a g t t g g t t a g a a c a t t a t g t t a a t a a c t t a a a a g t c a t a t a t t t a a a t t t g c a t g a a c t
5297112

Query: 5297 a t t a a t t t t a a a t t a a t t t g t a a a a t a t 5324
|||||
Sbjct: 5297111 a t t a a t t t t a a a t t a a t t t g t a a a a t a t 5297084

Score = 198 bits (100), Expect = 1e-47
Identities = 100/100 (100%)
Strand = Plus / Plus

Query: 1643 a a c g c c t t a t c c c a c t a g g t g g g g t c g g c t a c a t g g a t c a a c t t c c g c c a t a a t g t t c t a
1702
|||||
Sbjct: 14997759 a a c g c c t t a t c c c a c t a g g t g g g g t c g g c t a c a t g g a t c a a c t t c c g c c a t a a t g t t c t a
14997818

Query: 1703 t c a a g t a c c a t a c t t c t a t c c a a a c c a t t a a t t t c g a g a t 1742
|||||
Sbjct: 14997819 t c a a g t a c c a t a c t t c t a t c c a a a c c a t t a a t t t c g a g a t 14997858

Score = 198 bits (100), Expect = 1e-47
Identities = 109/112 (97%)
Strand = Plus / Minus

Query: 1195 a a t c a t a c c t t t c t c g g c c t t t t g g c t a a g a t c a a g t g t a g t a t c t g t t c t t a t c a g t t t
1254
|||||
Sbjct: 47447809 a a t c a t a c c t t t c t c g g c c t t t t g g c t a a g a t c a a g t g t a g t a t c t g t t c t t a t c a g t t t
47447750

Query: 1255 a a t a t c t g a t a t g t g g g t c a t t g g c c c a c a t g a t a t t a a a t t t a t t t t t t g a 1306
|||||
Sbjct: 47447749 a a t a t c t g a t a t g t g g g t c a t t g g c t c a t g t g a t a t t a a a t t t a t t t t t t g a 47447698

Score = 196 bits (99), Expect = 5e-47
Identities = 184/211 (87%), Gaps = 11/211 (5%)
Strand = Plus / Plus

Query: 4816 caatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatcca
4875

|||||
Sbjct: 20669902 caatatcatagctttgtttagaaaaaat-agatttaatagttaatagctaaagaaacca
20669960

Query: 4876 aaagtttttcttttattt-----ttattttgttcctattcaattctaattttgtca
4926

||||
Sbjct: 20669961 aaagcgtttcttttatttctattttctttattttcttcctattcaattttaattttgtct
20670020

Query: 4927 tttttt-tcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttga
4985

|||||
Sbjct: 20670021 tcttttctcactgtctctcatacttttctgtcttctcacctgcttcttcagtttacttga
20670080

Query: 4986 ttattatttttactttgatacattagccaata 5016

||||
Sbjct: 20670081 ttattgttgactttgacacattagccaata 20670111

Score = 190 bits (96), Expect = 3e-45
Identities = 188/216 (87%), Gaps = 2/216 (0%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175

|||||
Sbjct: 9975746 aaaaattaattgtcacaaaatttattatataaaatttacatgtacattaaatatacattag
9975805

Query: 5176 aaattttagtggttatatttagtga-aattaattattttataacataattgatgtattagt
5234

|||||
Sbjct: 9975806 aaattttagtggttatatgtagagataattaattattttataacataattaatctattagc
9975865

Query: 5235 tcagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgga
5294

|||||

Sbjct: 9975866 tcagttagttagaacggtataactaataacgcaaaagtc-atagtttgattcttgcttgaa
9975924

Query: 5295 tcattaattttaaattaatttgtaaaatatatTTTT 5330
|||||
Sbjct: 9975925 ccattaattttaaattaatttcgtaaaacatatTTTT 9975960

Score = 180 bits (91), Expect = 3e-42
Identities = 421/527 (79%), Gaps = 8/527 (1%)
Strand = Plus / Minus

Query: 6716 ttggatatccattttggtgtgtatacgagaggagacatgacaacctttagaatttctttt
6775
|||||
Sbjct: 48213994 ttggatatccttttcaatgtggatacaagaggagacaagatgatccttagaatttctttt
48213935

Query: 6776 catttttgggttggggcaaatcttggcttgtgacatggtgaccaacatgcttcattgca
6835
| | | |
Sbjct: 48213934 cttctctatgttggggtaaactattggctcgtgacatggttagccaatatgcttcattgca
48213875

Query: 6836 caatttcccaagtaatcatttgtacatgttatagatacttttcagcgtatacacaagatg
6895
|||||
Sbjct: 48213874 caatttcccaacaatcctct-tatatattggagacactttccaacatatacatagcatg
48213816

Query: 6896 tatgtagttcctataactcatggtgagcatgcttataaacaacaaca---tgagaacaaaa
6952
|
Sbjct: 48213815 tttgtagttcctgtactcatggtgagcatgcttacaagcagcaacaatatgagaacaaga
48213756

Query: 6953 catgtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaa
7012
|
Sbjct: 48213755 c--gtgcaacttttggaaatttgccacagccacaccacctttcatccagtttgatcgtgaa
48213698

Query: 7013 atttctcactagttgaatctctctctccagtttaattgtctcctagactaagaattgtatg
7072
|
Sbjct: 48213697 aattctagcgagctgaatctttctcgg--gtttattgtctcctagaccaagaatcgtgtg
48213640

Query: 7073 tgcgattaatcgaactcaagaacaatgtgagagtttgcccttttctgtatgtctttcata
 7132
 ||||| ||||||||||||||||||||| ||| ||| ||| ||||| ||
 Sbjct: 48213639 tgcgcatcgatcgaactcaagaacaatgtgagtggttatctttctctatgtgtctttgatg
 48213580

Query: 7133 gccttggtttaataacttttgtataaaacttcaccaaataatcactcttgcgacttctctc
 7192
 ||||| ||||| ||||||||| | || ||||| || | ||||| ||||| ||
 Sbjct: 48213579 accttggttagtactttaaataaaacttgatcagatgtaagcattggtgcaacttctctt
 48213520

Query: 7193 cccctttggttgaacaatgcattacacctagtataggttgattttac 7239
 || |||| ||||||||||||||||||||| | || ||||||||| ||
 Sbjct: 48213519 cctcttttggttgaacaatgcattacaccttatttatgttgattttac 48213473

Score = 178 bits (90), Expect = 1e-41
 Identities = 189/222 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||||||| | | ||||||||||||||||||||| |||| || ||||||||||||| ||
 Sbjct: 17937185 aaaattaattatcataaaatttattatctaaatttacatgtgcattaaatatacattaga
 17937244

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||||||||||| ||||| ||||||||||||||||||||| ||||||||| ||
 Sbjct: 17937245 aatttttagtggttatatatagtgacgttaattattttataacataattgacctattagttc
 17937304

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 | ||||||||||||| || ||||||| ||||||||| | ||| ||||| | ||| |
 Sbjct: 17937305 aattgggttagagcatcgctgctaataatacgaagtcataatgtttgattcctgcatgagcc
 17937364

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaa 5338
 ||||||| ||||||||| || || ||||||||||||| ||
 Sbjct: 17937365 attaattataaattaattcctagaacatatatttttgaaaaaaa 17937406

Score = 172 bits (87), Expect = 7e-40
 Identities = 90/91 (98%)

Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 46475527 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 46475468

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733
 ||||||||||||||||||||
 Sbjct: 46475467 tcaagtaccatacttctatccaaatcattaa 46475437

Score = 170 bits (86), Expect = 3e-39
 Identities = 182/214 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||||| ||||||||||||| ||||||| ||||||| ||||||| ||||||| ||
 Sbjct: 49000000 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattaga
 49000059

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||||||||||| || || ||||| || ||||||||||||||||| ||||| ||
 Sbjct: 49000060 aatttttagtggttatgtataacaacattatttactttataacataattgactcattagctc
 49000119

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 ||||||||||||| || ||||||||| ||||||||| ||| | ||||| ||||| ||
 Sbjct: 49000120 agttggtagagtgttggttaataaacttgaaagtcaggtttgagtccttgcttgacc
 49000179

Query: 5297 attaatTTTTaaattaatttgtaaaatatattttt 5330
 ||||| ||||||||||||| ||||| | |||||||||
 Sbjct: 49000180 attattttttaaattaattggtaacaaatatattttt 49000213

Score = 170 bits (86), Expect = 3e-39
 Identities = 173/202 (85%)
 Strand = Plus / Minus

Query: 5131 caaaatttattatctaaatttgcacataaaatatacattagaaatttttagtggttat
 5190

|||||
 Sbjct: 49373963 caaaatttattatgttaaatttacatgtgtattaaatatacattaaaaattttattgttat
 49373904

Query: 5191 atttagtgaaattaattatttttataacataattgatgtattagttcagttgggttagagca
 5250

|||||
 Sbjct: 49373903 atataacaacattaattatttttataacataattgacctatcagttcagttagtttagagca
 49373844

Query: 5251 ttatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaatt
 5310

|||||
 Sbjct: 49373843 ttgtgctaataatgtgaaagttataggtttaattcctgcatgggtcattaatttttaaatt
 49373784

Query: 5311 aatttgtaaaatatatttttga 5332
 | |||
 Sbjct: 49373783 agttcgtaaaatatatttttga 49373762

Score = 169 bits (85), Expect = 1e-38
 Identities = 157/181 (86%), Gaps = 10/181 (5%)
 Strand = Plus / Plus

Query: 4817 aatatcatagctttgtttagaaaaaagagatttaataattaatagctaaagaaatccaa
 4876

|||||
 Sbjct: 16968336 aatatcatagttttgtttagaaaagaagagatttaatagtttaatagctaaagaaactcaa
 16968395

Query: 4877 aagtttttcttttattt-----ttattttgttcctattcaattctaattttgtcat
 4927

|| |||||
 Sbjct: 16968396 aaacttttcttttatttatattctttttattctcttcctattcaattctaattttgtctt
 16968455

Query: 4928 ttttt-tcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgat
 4986

|||||
 Sbjct: 16968456 tttttctcactatctctcatacttcttctgtcttctcacctgcttcttcagtttacttgat
 16968515

Query: 4987 t 4987
 |
 Sbjct: 16968516 t 16968516

Score = 165 bits (83), Expect = 2e-37
 Identities = 149/171 (87%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 ||||| | ||||| ||||| || || ||||| |||||
 Sbjct: 11720821 aaaattaattataacaaaatttattatgttaaatttacatgtgcacatcaaatacattaga
 11720880

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataaattgatgtattagttc
 5236
 ||||| ||||| || || ||||| ||||| || || |||||
 Sbjct: 11720881 aatttttagtggttatatctagcgacattaattgtttttataacataaattaacctattagttt
 11720940

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattctt 5287
 ||||| ||||| ||||| ||||| || ||||| |||||
 Sbjct: 11720941 agttggtagagcggttatgctaataatgcgaaagtcgcaggttcaattctt 11720991

Score = 163 bits (82), Expect = 6e-37
 Identities = 139/158 (87%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattag
 5175
 |||| | ||||| ||||| ||||| || | || | ||||| |||||
 Sbjct: 10419463 aaaatttaattgttgcaaaaatttattatgttaaatttacaagtgcatataaatatacattag
 10419522

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataaattgatgtattagtt
 5235
 ||||| ||||| || || ||||| ||||| ||||| |||||
 Sbjct: 10419523 aaatttttagtatttatatatagcgacattaattattttataacataaattgacatattagtt
 10419582

Query: 5236 cagttggtagagcattatgttaataatgtgaaagtca 5273
 ||||| ||||| || || ||||| |||||
 Sbjct: 10419583 cagttggtagagtttcatgctaataacgtgaaagtca 10419620

Score = 161 bits (81), Expect = 3e-36
 Identities = 81/81 (100%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 |||||
 Sbjct: 17937133 aaaattaattgtcacaaaatttattatctaaatttacatgtgcattaaatatacactaaa
 17937074

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg--atgtattagt
 5234
 |||||
 Sbjct: 17937073 aatttttagtggttatataataatgatattattttattataataattgacaactattaat
 17937014

Query: 5235 tcagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgga
 5294
 |||||
 Sbjct: 17937013 tcagttgattagagcatcgtgttaataatgtg-aagtcacaggttgattcctgcataag
 17936955

Query: 5295 tcattaatttttaaattaatttgtaaaatatattttt 5330
 |||||
 Sbjct: 17936954 tcattaatttttaaattaatttcgtaaaacatatattttt 17936919

Score = 151 bits (76), Expect = 2e-33
 Identities = 79/80 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 3156954 aacgccttatcccactaggtggggtcggctacatggatcaacttccaccataatgttcta
 3156895

Query: 1703 tcaagtaccatacttctatc 1722
 |||||
 Sbjct: 3156894 tcaagtaccatacttctatc 3156875

Score = 151 bits (76), Expect = 2e-33
 Identities = 118/132 (89%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 |||||
 Sbjct: 32724588 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatacattaga
 32724529

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 32724528 aattttagtggttatgtatagcgacattaattatttttaaacataattagtctattagttc
32724469

Query: 5237 agttgggtagag 5248

|||||
Sbjct: 32724468 agttgggtagag 32724457

Score = 151 bits (76), Expect = 2e-33
Identities = 94/100 (94%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcgcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 49441813 aacgccttatcccactaggtggggcgcggctacatggatcaacttccgccataatggttta
49441754

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagat 1742

|||||
Sbjct: 49441753 tcaagtatcatacttttatccaaataattaagttcgagat 49441714

Score = 149 bits (75), Expect = 1e-32
Identities = 141/163 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 15723567 aaaattaattgtcaaaaaatttattatgtaaattcacatgtgtattaaatagacattaga
15723626

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 15723627 aattttagtggttatatatagcgacattaattattttataacataattgggtctattagctc
15723686

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtcaaaagtt 5279

|||||
Sbjct: 15723687 agttagtttagagcatcgtgttaataacctgaaagtcacaagtt 15723729

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236
|||||
Sbjct: 14129287 aatttttagtggttatataacgatattaattatttttataacataattagtctattaattc
14129228

Query: 5237 agttgggtagagc 5249
| ||| |||||
Sbjct: 14129227 aattgattagagc 14129215

Score = 145 bits (73), Expect = 1e-31
Identities = 119/133 (89%), Gaps = 1/133 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 35259134 aaaattaattgtcacaaaatttattatctaaatttacatgcacattaaatatacattaga
35259075

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236
|||||
Sbjct: 35259074 aatttttagtggttatctatagcgacattaatta-tttataacataatttgcctattaactc
35259016

Query: 5237 agttgggtagagc 5249
|||||
Sbjct: 35259015 agttgggtagagc 35259003

Score = 143 bits (72), Expect = 6e-31
Identities = 72/72 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 35304115 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
35304056

Query: 1703 tcaagtaccata 1714
|||||
Sbjct: 35304055 tcaagtaccata 35304044

Score = 143 bits (72), Expect = 6e-31
Identities = 141/164 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| ||||||||||||||| ||||||| ||||| || ||||| |||||||||||
Sbjct: 49231031 aaaattaattattacaaaatttattatttaaatttacatgcgcattaaaaatacattaga
49230972

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||||| | || | |||| | ||||||||||||||||||| ||||||| ||
Sbjct: 49230971 aatttttagtggttatgtataacaacattattttattttataacataattgatctattagctc
49230912

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttc 5280
 | ||| ||||||| || || ||||||| ||||||||||| |||||||
Sbjct: 49230911 acttgattagagcgttgtgctaataacttgaaagtcacaagttc 49230868

Score = 141 bits (71), Expect = 2e-30
Identities = 180/214 (84%), Gaps = 3/214 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||| ||||||| ||||||| ||||||| |||| || ||||||||||||||| ||
Sbjct: 10918453 aaaattaattgtcacaaaattgattatgtaaatttacattg-cattaaatatacatttga
10918511

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||| ||||||| || || || ||||||||||||||||||| ||||||| |||||||
Sbjct: 10918512 aatttttaatgttatatataatgatattaattattttataacataattgacctattagttt
10918571

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 ||||| || ||| | ||||||| ||||||| ||||||| ||||| | || || ||||| |
Sbjct: 10918572 agttgatttgag--tggtgtaataatatgaaagtcataagtttgaatgttgcattgggccc
10918629

Query: 5297 attaatttttaaattaatttgtaaaatatattttt 5330
 || ||||||||||||||||||||||||| |||||
Sbjct: 10918630 atgaatttttaaattaatttgtaaaatatatttttt 10918663

Score = 139 bits (70), Expect = 9e-30
 Identities = 130/150 (86%)
 Strand = Plus / Plus

Query: 5124 attgttacaaaatttattatctaaatttgcacataaataacattagaaatttta
 5183
 ||||| ||||| ||||| ||||| || ||||| ||||| |||||
 Sbjct: 1221105 attgttacagaatttattatataaatttacatgtgcattaaatatattagaaatttta
 1221164

Query: 5184 gtgttatatttagtgaaattaattattttataacataattgatgtattagttcagttggt
 5243
 ||||| ||| || |||| ||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 1221165 atgttatatatagcgacattacttaattttataacataattgacctattaactcagttggt
 1221224

Query: 5244 tagagcattatgttaataatgtgaaagtca 5273
 ||||| ||||| ||||| ||||| |||||
 Sbjct: 1221225 tagagcgttatgttaataattttaaagtca 1221254

Score = 131 bits (66), Expect = 2e-27
 Identities = 126/146 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 7924732 aaaattaattatcacaaaatttattatctaaatttacatgcacattgaatatacatataa
 7924791

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 || ||||| ||| || |||| || ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 7924792 aacttttagtattacctatagcgacattaattattttttaacataattgatttattaattc
 7924851

Query: 5237 agttgggttagagcattatgttaataa 5262
 |||| ||||| || ||||| |||||
 Sbjct: 7924852 agtttaggttagagtatcgtgttaataa 7924877

Score = 131 bits (66), Expect = 2e-27

Query: 5237 agttggttagagcattatgttaataatgtgaaagtca 5273
 |||||
 Sbjct: 17580459 agttggttaaagcgtcatgctaataaaactgaaagtca 17580423

```
Query: 1643      aacgccttatcccaactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
1702            |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 43547107 aacgccttatcccaactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
43547048
```

Score = 125 bits (63), Expect = 1e-25
Identities = 126/146 (86%), Gaps = 2/146 (1%)
Strand = Plus / Plus

```
Query: 5177      aat ttt agt gtt ata tt t agt ga aa tta att at ttt tata ac ata att gat gt att ag ttc  
5236            | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
  
Sbjct: 43790016 aat ttt agt gtt ata t -- agt ga cat ta att at ttt tata ac ata attaat ct att ag ctg  
43790073
```

Query: 5237 agttggtagagcattatgttaataa 5262
|||||||
Sbjct: 43790074 agttggtagagcgtcatgataataa 43790099

Score = 123 bits (62), Expect = 5e-25
Identities = 71/74 (95%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||||
Sbjct: 63824 aaaattaattgttacaaaatttattatttaaatttgcacataaatatacattaga
63883

Query: 5177 aatttttagtggttat 5190
|||||||
Sbjct: 63884 aatttttagtggttat 63897

Score = 123 bits (62), Expect = 5e-25
Identities = 176/214 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||||
Sbjct: 10866380 aaaattaattgttacaaaatttattatgtaaacttgcataactataatatacattaga
10866321

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||||
Sbjct: 10866320 aatttttagtggttatatatatcgacgtcaattattttttaataataattgacctattagctc
10866261

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||||||
Sbjct: 10866260 agttggatagagtgttggtgctaataatgcaaaagtcataaggttcaagacctgcatgagtt
10866201

Query: 5297 attaatTTTaaattaatttGTaaaatatattttt 5330
|
Sbjct: 10866200 aataattTTTaaattatttGTaaaatatattttt 10866167

Score = 123 bits (62), Expect = 5e-25
 Identities = 143/169 (84%), Gaps = 2/169 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 35274347 aaaattaattgtcaca--tttattatctaaatttccatacacattaaataacattaaa
 35274404

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || | ||||| ||||| ||||| ||||| || ||||| |||||
 Sbjct: 35274405 aatttttagtattatataacaacattaattattttataacataactaacctattagctc
 35274464

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattc 5285
 ||||| ||||| | || ||||| ||||| ||||| ||||| |||||
 Sbjct: 35274465 ggttgattagaacgtgatgctaataatgcgaaagtcacaagttcaattc 35274513

Score = 121 bits (61), Expect = 2e-24
 Identities = 112/129 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 43789718 aaaattaatttttagaaaatttattatataaaatttacatgtacattaaataacattaaa
 43789659

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 43789658 aactttaatggttatatatagaaacattaattattttataacataattgacttattagatc
 43789599

Query: 5237 agttgggtta 5245
 | |||||
 Sbjct: 43789598 acttgggtta 43789590

Score = 121 bits (61), Expect = 2e-24

```
Query: 6485      taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaa
6544            |||||
Sbjct: 11787340 taattgaaatttaaaaa--atatgtaactgacaagttgaattgaattaaaatatttaa
11787284
```


Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176

|||||
Sbjct: 1244875 aaaattaattgtcataaaaatttattatttaaatttacatacgcatataacattaaa
1244934

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| |||||
Sbjct: 1244935 aacttttagtgctatgtataataacattatttattttataatataattggccttgtagttt
1244994

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggtac
5296

||| |||||
Sbjct: 1244995 agtaagtagagtattgcattaataacctgaaagtcacatgttcaatttttgcttgaatt
1245054

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttGaaaaaaaaattataaaaaaatgaa
5355

|||||
Sbjct: 1245055 attaatTTTaaattaattcatcacaatatTTTt-aaaaaaacctataaaaaaatgaa
1245112

Score = 117 bits (59), Expect = 3e-23
Identities = 125/147 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176

|||||
Sbjct: 10480861 aaaattaattgccacaagatttattatgtaaatttacttgtgcattaagatacattaga
10480920

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 10480921 aatttttagtggttatataacgacattaattattttataacataattaacttattaactc
10480980

Query: 5237 agttggtagagcattatgttaataat 5263

|||||
Sbjct: 10480981 agttggtagagcggttggtgctaataat 10481007

Score = 117 bits (59), Expect = 3e-23
 Identities = 125/147 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||| || |||| | ||||| | ||||| | || | |||| | ||||| ||
 Sbjct: 10487211 aaaattaatcgtcacaagatttattatgtaaatttacttgtgcattaaagatacattaga
 10487270

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| ||||| || || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 10487271 aatttttagtggttatataacgacattaattattttataacataattgacttattagctc
 10487330

Query: 5237 agttggtagagcattatggttaataat 5263
 ||| ||||| || ||||| |||||
 Sbjct: 10487331 agtaagtagagtggtgtggttaataat 10487357

Score = 117 bits (59), Expect = 3e-23
 Identities = 137/163 (84%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 15723544 aaaattaattattacaaaatttattatataaaacttatatgtgtattaaatatacattaga
 15723485

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 || |||| | ||||| || || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 15723484 aaatttattattatatataatgacattaattattttataacataattgacctattagctt
 15723425

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagtt 5279
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 15723424 gcttggtagagcattgtgttaataacgcaaaagtcataagtt 15723382

Score = 115 bits (58), Expect = 1e-22
 Identities = 115/133 (86%), Gaps = 2/133 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 46569413 aaaattaattgtcacaa--tttattatctaaatttacatgcgcattaaatatacattaga
46569470

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 46569471 aatttttagtattatatataacgacactaattattttataatataattgatctattaactc
46569530

Query: 5237 agttggtagagc 5249
| |||
Sbjct: 46569531 aattgattagagc 46569543

Score = 113 bits (57), Expect = 5e-22
Identities = 96/109 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 14129547 aaaattaattgttataaaaatttattatttaaatttacatgcgcattaaatataatataaa
14129606

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
|| |||||
Sbjct: 14129607 aaatttagtggttatatatagtgatgtaattattatataatataattga 14129655

Score = 113 bits (57), Expect = 5e-22
Identities = 117/137 (85%)
Strand = Plus / Minus

Query: 5136 tttattatctaaatttgcacataaatatacattagaaatttttagtggttatattta
5195
|||||
Sbjct: 15126875 tttattatctaaatttatatgtgcactaaatattcattagaaatttttagtggttatatata
15126816

Query: 5196 gtgaaattaattattttataacataattgatgtattagttcagttgggttagagcattatg
5255
||| |||||

Sbjct: 15126815 atgacattaattatTTTTATAATAATTGACCTATTAacttaattgggttagagcatcatg
15126756

Query: 5256 ttaataatgtgaaagtc 5272
 ||| || |||||
Sbjct: 15126755 ctaaaaacgtgaaagtc 15126739

Score = 109 bits (55), Expect = 8e-21
Identities = 124/147 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 2760583 aaaattaattgtcacaaaatttattgatgtaaatttacatgtgcattaaatatattaaa
2760642

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 2760643 aatttttagtggttatatatatcgacattagttattttataaatatgattgacctattagctc
2760702

Query: 5237 agttgggttagagcattatgttaataat 5263
 | |||| |||||
Sbjct: 2760703 aattgggtagagcattgcgttaataat 2760729

Score = 109 bits (55), Expect = 8e-21
Identities = 65/67 (97%), Gaps = 1/67 (1%)
Strand = Plus / Minus

Query: 1643 aacgccttatccc-actaggtggggtcgggtacatggatcaacttccgccataatgttct
1701
 |||||
Sbjct: 2873417 aacgccttatccccactaggtgggatcgggtacatggatcaacttccgccataatgttct
2873358

Query: 1702 atcaagt 1708
 |||||
Sbjct: 2873357 atcaagt 2873351

Score = 109 bits (55), Expect = 8e-21

Identities = 124/147 (84%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacatagaa
5177

|||||
Sbjct: 32476336 aaattaattgttataaaaatttattatataaaacttatatgtgtattaaatatacatataaa
32476277

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
5237

|||||
Sbjct: 32476276 aatttagtggttatataacacacattatttttttaacataattaacctattaattca
32476217

Query: 5238 gttggtagagcattatgttaataatg 5264

|||||
Sbjct: 32476216 gttggtaaatcattatgctaataatg 32476190

Score = 105 bits (53), Expect = 1e-19
Identities = 175/213 (82%), Gaps = 2/213 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacatagaa
5176

|||||
Sbjct: 303818 aaaattaattatcacaaaaattattatttaaatttacatacacattaaatataatata
303759

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 303758 aatttttagtggttatataataacactaattattttataatataattgatataattaactc
303699

Query: 5237 agttggtagagcattatgttaataatgt-gaaagtcaaaagttcaattcttacttggat
5295

|||
Sbjct: 303698 aatt-gtttagagcgttgtaataatgtaaaaaattataagtttgattcttggttgagt
303640

Query: 5296 cattaatttttaaattaatttgtaaaatatattt 5328

|||||
Sbjct: 303639 tattaatttttaaattaattcataaaatatattt 303607

Score = 105 bits (53), Expect = 1e-19
Identities = 60/61 (98%), Gaps = 1/61 (1%)
Strand = Plus / Plus

Query: 1852 ctctacatgcccaaaccacctaagtctatccccaccatcttctctacaataggcgctac
1911
|||||
Sbjct: 6051231 ctctacatgcccaaaccacctaagtctatccccaccatc-tctctacaataggcgctac
6051289

Query: 1912 t 1912
|
Sbjct: 6051290 t 6051290

Score = 105 bits (53), Expect = 1e-19
Identities = 77/85 (90%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatccccatgaataaataaaagggttttattcttaaatttgcttgag
5073
|||||
Sbjct: 16968594 ataattttaataaactatccccatgagtaataaaaggactcattcttaaatttgctttag
16968653

Query: 5074 ccctctcaagtccttgagccgcccc 5098
|||
Sbjct: 16968654 gcctttcaagtccttgagccgcccc 16968678

Score = 103 bits (52), Expect = 5e-19
Identities = 70/76 (92%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 7594320 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatacattata
7594261

Query: 5177 aatttttagtggttatat 5192
|||||
Sbjct: 7594260 aatttttagtggttatat 7594245

Score = 103 bits (52), Expect = 5e-19
Identities = 88/100 (88%)
Strand = Plus / Minus

Query: 7524 tcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaagagcttgca
7583
||||| ||||| | ||||||||||||||| | ||||||||||||||||||| |
Sbjct: 11783751 tcaagattcattatttcatcgagggtattcatctaaaccctccaaattcaaagagctagta
11783692

Query: 7584 gaaactgggtgggtgggtgtgcatatgtttatgtgggtgtgt 7623
|||| ||||||| ||||| ||||| |||||||||
Sbjct: 11783691 gaaattgggtggatgtgcacatgtttgtgtgggtgtgt 11783652

Score = 103 bits (52), Expect = 5e-19
Identities = 112/132 (84%)
Strand = Plus / Minus

Query: 5131 caaaatttattatctaaatttgcattgcacaataaatatacattagaaattttagtgttat
5190
||||||| ||||| ||||||| |||| | || ||||||||||||||||||| | |||
Sbjct: 40039872 caaaattaattattttaaatttcatgtccattaaatatacattagaaattttaattat
40039813

Query: 5191 atttagtgaaattaattattttataacataattgatgtatttagttcagttgggttagagca
5250
|| || | |||| ||||||||| ||||||| ||||||||||||| ||||| |
Sbjct: 40039812 atataataacattatttattttataatataattgacttatttagttcagttaattagaata
40039753

Query: 5251 ttatgttaataa 5262
|||||||||||
Sbjct: 40039752 ttatgttaataa 40039741

Score = 101 bits (51), Expect = 2e-18
Identities = 183/226 (80%), Gaps = 2/226 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||||||||| | | ||| ||| ||||||||||||| |||| | || ||||||||| ||||| |
Sbjct: 15127017 aaaattaattatcaaaaactttgttatctaaatttcatgtgcattaaatatatataaa
15127076

Query: 5258 aataa 5262

|||||
Sbjct: 10487053 aataa 10487049

Score = 97.6 bits (49), Expect = 3e-17
Identities = 130/157 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 10866480 aaaattaattggttataaaaatttattatgtaaacttatatgtgtattaaatatacatataa
10866539

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| |||||
Sbjct: 10866540 aaatttagtggttatatatatcgacattaattattttttaacataattgatttattaactc
10866599

Query: 5237 agttggtagagcattatggttaataatgtgaaagtca 5273

| |||||
Sbjct: 10866600 aagtggtagattgtcatattaataatgtaaaagtca 10866636

Score = 97.6 bits (49), Expect = 3e-17
Identities = 94/109 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 12471179 aaaattaattgtcacaaaatttattatataaaacttatatgtgcattaaatataatataa
12471238

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225

|| |||||
Sbjct: 12471239 aaatttagtggttatataacgacattaattattttataacataattga 12471287

Score = 97.6 bits (49), Expect = 3e-17
Identities = 113/133 (84%), Gaps = 1/133 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 34451027 aaaattaattgtcacaaaatttattatctaaatttgcacataaatatacattata
34450968

Query: 5177 aatttttagtggttatat-ttagtgaaattaattattttataacataattgatgtattagtt
5235

|||||
Sbjct: 34450967 aattttaccgttctatataactaacattattttattttataacataattgaccaattagct
34450908

Query: 5236 cagttgggtagag 5248

|||||
Sbjct: 34450907 cagttgggtagag 34450895

Score = 97.6 bits (49), Expect = 3e-17
Identities = 177/217 (81%), Gaps = 2/217 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 35259335 aaaattaattgtcacaaaatttattatctaaatttgcacataaatatacattaga
35259394

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 35259395 aatttttaattacatataacgacattaattattt-ataatgtaattaaccaattaagtc
35259453

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtcaaaagttcaattccttacttggatc
5296

|||||
Sbjct: 35259454 agttgggtagagtgttatgttaatacacaca-aaagtcacagggttgattccttgcattgaacc
35259512

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaa 5333

|||||
Sbjct: 35259513 attaatttttaaattaattcaaaaaatagatttttgaa 35259549

Score = 97.6 bits (49), Expect = 3e-17
Identities = 102/117 (87%), Gaps = 2/117 (1%)
Strand = Plus / Plus

Query: 1193 ataatcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagt
1252

Sbjct: 47444577 ataagcatacttttctccaccttttggttaagatcaagtgca-tatctgttcttagcagt
47444635

Query: 1253 ttaatatctgatatgtgggtcattggcccacatgatattaaattt-atTTTTTgaag
1308

Sbjct: 47444636 tttatatttgatatgtgggccattggctcaaattgaaatttaatttaattttttgaag
47444692

Score = 95.7 bits (48), Expect = 1e-16
Identities = 144/176 (81%)
Strand = Plus / Minus

Query: 5164 aatatacattagaaatTTTtagTgttatatttagtgaaattaattattttataacataatt
5223

Sbjct: 922808 aatatacattagaaattttaatgttatataataacgatattaattattttataacataatt
922749

Query: 5224 gatgtattagttcagttggtagagcattatgttaataatgtgaaagtcaaaagttcaat
5283

Sbjct: 922748 gacttattaactcagttgattaggatatcatgttaataacctaataaacacatgtttgaa
922689

Query: 5284 tcttacttggatcattaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAAA 5339

Sbjct: 922688 tcttgaatgaattattaattttaaattaattttctaaaacatatatttttttaaaaaaa 922633

Score = 95.7 bits (48), Expect = 1e-16
Identities = 76/84 (90%), Gaps = 1/84 (1%)
Strand = Plus / Plus

Query: 4317 tttgcgcttgggacaataacgcagctagtgaggttctaaccgaggtgtgtctattgctgg
4376

Sbjct: 6415134 |||| |||||| |||| ||| ||| |||||||||||||||||| |||||||||||||
6415192 tttgtgcttggggcaatgacgtagcatgtgaggttctaaccgaggt-tgtctattgctgg

Query: 4377 ttgaaaactatTTTTCAAACCCCT 4400

|||||
 Sbjct: 6415193 ttgaaaactattttccaaaccccct 6415216

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 93/107 (86%), Gaps = 2/107 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 21345168 aaaattaattggttataaaaattaattatgtaaactt--atgtatattaaatatacattaga
 21345111

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 |||||
 Sbjct: 21345110 aatttttagtattatatataacgaaattaattattttttaacataatt 21345064

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 111/131 (84%), Gaps = 2/131 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 32323636 aaaattaattgtcacaaaatttattatgtaaactt--atgtgtattaaatataatattaga
 32323693

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 32323694 aatttttaattggttatattataacgacattaattattttataacataattggcctattagctc
 32323753

Query: 5237 agttgggttaga 5247
 |||||
 Sbjct: 32323754 agttgggttaga 32323764

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 69/76 (90%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 47043383 aaaattaattgtcacaaaatttattatttaaatttacatgtgcattaaatatacattaca
 47043442

Query: 5177 aatttttagtggttatat 5192

|||||
 Sbjct: 47043443 aatttttagtggttatat 47043458

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 111/132 (84%), Gaps = 4/132 (3%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 1822836 aaaattaattattacaaaatttattatttaaatttatatgcgcattaaatatacatcaga
 1822895

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 1822896 aattttaatgttatatgtaaaaacattatttattttacaacgtaattg----attagttc
 1822951

Query: 5237 agttgggtagag 5248

|||||
 Sbjct: 1822952 agttgattagag 1822963

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 77/87 (88%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221

|||||
 Sbjct: 8626571 taaatatacattagaaaatttagtattatatatagcaacattaattattttataacataa
 8626630

Query: 5222 ttgatgtattagttcagttgggtagag 5248

|||
 Sbjct: 8626631 ttggtctattagctcagttagtagag 8626657

Score = 93.7 bits (47), Expect = 5e-16
Identities = 122/147 (82%)
Strand = Plus / Minus

Query: 5133 aaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggttatat
5192
||||| ||||| ||||||| |||| | ||||||| ||||||| |||||||
Sbjct: 11676445 aaattaattatttaaatttacatgtgtattaaatatacattagaaattttattggttatac
11676386

Query: 5193 ttagtgaaattaattatttttataacataattgatgtattagttcagttgggttagagcatt
5252
|| | ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 11676385 ataacaacattaattatttttataacataattggcctattagcttagttgggttagagcgtc
11676326

Query: 5253 atgttaataatgtgaaagtcaaaagtt 5279
||| ||||||| ||||||| |||||
Sbjct: 11676325 atgctaataatgcaaaagtcacaagtt 11676299

Score = 93.7 bits (47), Expect = 5e-16
Identities = 99/115 (86%), Gaps = 1/115 (0%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtta
5189
||||| ||||||| ||||||| |||| ||| ||||||| ||||||| |||||||
Sbjct: 43228315 acaaaatttattatataaaattttcatgtacattaaatataatttagaaatttttagtggtta
43228374

Query: 5190 tatttagtgaaattaattatttttataacataattgatgtattagttcagttgggtt 5244
||| |||||| | || ||| ||||||| |||||| | |||||| |||||||
Sbjct: 43228375 tatatagtgacactattta-tttataacataaatgtgtctattagctcagttgggtt
43228428

Score = 91.7 bits (46), Expect = 2e-15
Identities = 91/106 (85%)
Strand = Plus / Plus

Query: 6561 aaattacaacaatagaacaaaaatatttaaatttgaaataatacaacaaaaattttaaaa
6620
||||| |||| | ||||||| ||||||| ||||||| |||| ||| |||

Sbjct: 24718278 aaattaccaacaacaaaacaaaatattttaatttgaatttatacaataaaattttataaa
24718337

Query: 6621 tacaacaatatggcataaaattaatggtggtggcctgagcctaca 6666
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 24718338 tacaacaatatgacatacatttaatggtggtggcctaagcctaca 24718383

Score = 89.7 bits (45), Expect = 8e-15
Identities = 100/116 (86%), Gaps = 3/116 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 12306082 aaaattaattggtataaaaatttattatgtaaactt--atgtgtattaaatatattaga
12306139

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 12306140 aatttttagtattatatgtac-gatattaattattttataacataattgatctatta
12306194

Score = 89.7 bits (45), Expect = 8e-15
Identities = 75/85 (88%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggtttattcttaatttgcttgag
5073
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 20673131 ataattttaatgaactattttatgagtaataaaaaggcctcattcttaatttgctttag
20673190

Query: 5074 ccctctcaagtccttgagccgcccc 5098
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 20673191 gtctctcaaataccttgagccgcccc 20673215

Score = 89.7 bits (45), Expect = 8e-15
Identities = 162/201 (80%)
Strand = Plus / Minus

Query: 5128 ttacaaaatttattatctaaatttgcacataaatatacattagaaatttttagtgt
5187

|||||
Sbjct: 31057397 ttacaaaatttattatataaaacttatatgtgtatttagatatacattacaaaatttttagtgt
31057338

Query: 5188 tatatttagtgaaattaattattttataacataattgatgtattagttcagttgggttaga
5247

|||||
Sbjct: 31057337 tatatgtagtagcattaattatttttcaacacaattgatttattaactcaactgggttaa
31057278

Query: 5248 gcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaattttta
5307

|||||
Sbjct: 31057277 acattgtgttaataatgttaaagtcagagggttgagacttgcagagacattaattttta
31057218

Query: 5308 attaatttgtaaaatatattt 5328
|||||
Sbjct: 31057217 attattttgtaaaacatatattt 31057197

Score = 89.7 bits (45), Expect = 8e-15
Identities = 91/105 (86%), Gaps = 1/105 (0%)
Strand = Plus / Minus

Query: 6562 aattacaaacaatagaacaaaatatttaaatttgaaataatacaacaaaaattttaaaat
6621

|||||
Sbjct: 48214169 aattaccaacaataaaaataaaatatttaaatttgaaacaatacaacaaaa-tttaaaat
48214111

Query: 6622 acaaacaatatggcataaaattaatgttggttgacctgagcctaca 6666

|| ||
Sbjct: 48214110 acgaagaatattacataaatttaatatgttggttgacttgagtctaca 48214066

Score = 89.7 bits (45), Expect = 8e-15
Identities = 105/125 (84%)
Strand = Plus / Plus

Query: 5121 ttaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaatt
5180

|||||
Sbjct: 49231303 ttaattgtcacaaaatttattatttaaatttatatgcgcattaaatatacattaaaaatt
49231362

Query: 5181 ttagtggttatatttagtgaaattaattatattttataacataattgatgtattagttcagtt
 5240
 |||||
 Sbjct: 49231363 ttagtggttatataaaacaatattatattttatgatgacataattatcctattagttcaatt
 49231422

Query: 5241 ggtta 5245
 |||||
 Sbjct: 49231423 ggtta 49231427

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 86/100 (86%)
 Strand = Plus / Minus

Query: 5138 tattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggttatatttagt
 5197
 |||||
 Sbjct: 10480823 tattatgtaaatttacatgtgcattaaatatattagaaatttttagtggttatataat
 10480764

Query: 5198 gaaattaattatattttataacataattgatgtattagttca 5237
 |||||
 Sbjct: 10480763 aacatcaattatattttataacataattaacctattagttca 10480724

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 53/56 (94%)
 Strand = Plus / Minus

Query: 7445 aacacacatgacaactacaaatcattaaataatacaattacaatcaaataatttgg 7500
 |||||
 Sbjct: 11783844 aacacacatgacaactacaaatcattaaataataaaataacaatcaaataaattgg
 11783789

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 92/108 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 12740783 aaaattaattatcacaaaatttattatattaaatttatgtacattaaatatattaga
 12740842

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattg 5224
 ||||| | ||||| ||| | ||| ||||| ||||| |||||
 Sbjct: 12740843 aatTTtattattatatatagtaactTTtatttattTataatataattg 12740890

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 86/100 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||| ||||| | | ||||| ||||| ||||| ||||| || ||||| ||||| |||||
 Sbjct: 46618763 aaaattaattatcataaaaatttattatataaaatttacatgtgcattaaatatacattaga
 46618704

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataa 5216
 ||||| ||||| || | |||| | |||| ||||| |||||
 Sbjct: 46618703 aatttaagtgttatgtatagtaacattatttattTataa 46618664

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 64/71 (90%)
 Strand = Plus / Plus

Query: 4337 gcagctagtgaggttctaaccgaggtgtgtctattgctgggtgaaaactatTTTcaaacc
 4396
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 1949315 gcagctagtgaggttctaactgagcgcgctctattgccggttgaaaactatTTTcaaacc
 1949374

Query: 4397 ccctctgaggc 4407
 ||||| |||||
 Sbjct: 1949375 tcctcttaggc 1949385

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 88/103 (85%)
 Strand = Plus / Minus

Query: 5121 ttaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaatt
 5180
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 6289031 ttaattgttacaaaattaattatgtaaatttataagtgtattaaatatacattagaaatt
 6288972


```
Query: 1265      a 1265
      |
Sbjct: 3480439  a 3480439
```

Score = 81.8 bits (41), Expect = 2e-12
Identities = 104/125 (83%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
|||||
Sbjct: 9648655 aaaaattaattgtcgcaaaaatttattatataaaacttatatgtgcattaaatatatattaa
9648714

Query: 5176 aaatttttagtggttatatttttagtgaaattaattattttataacataattgatgtattagtt
5235
||
Sbjct: 9648715 aaatttttaattattatatataataaaaattaattattttataatataattgacttattagtt
9648774

Query: 5236 cagtt 5240
|||
Sbjct: 9648775 tagtt 9648779

Score = 81.8 bits (41), Expect = 2e-12
Identities = 99/117 (84%), Gaps = 1/117 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaa-tttgcatgcacaataaatatacattag
5175
|||||
Sbjct: 21345284 aaaattaattggttacaaaatttattatgtaaaatttatatgtgtattaaatatatattag
21345343

Query: 5176 aaatttttagtggttatatttttagtgaaattaattattttataacataattgatgtatta
5232
|||||
Sbjct: 21345344 aaatttttatagttatatataacgacattaattattttttaacataattaatctatta
21345400

Score = 79.8 bits (40), Expect = 7e-12
Identities = 67/76 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| ||||||| ||||||| |||| || ||||||| ||||
Sbjct: 4121322 aaaattaatcattacaaaatttattatataaaatttatatgcgcatataacatgaaa
4121263

Query: 5177 aatttttagtggtatat 5192
|||||
Sbjct: 4121262 aatttttagtggtatat 4121247

Score = 79.8 bits (40), Expect = 7e-12
Identities = 40/40 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatca 1682
|||||
Sbjct: 15722052 aacgccttatcccactaggtggggctcggctacatggatca 15722013

Score = 79.8 bits (40), Expect = 7e-12
Identities = 70/80 (87%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaaaaagggttttattcttaaatttgcttgag
5073
||||| ||||||| ||||||| || ||||||| ||||
Sbjct: 41404814 ataattttaataagctattttatgagtaaaaaagacctattcttaaatttactttag
41404755

Query: 5074 ccctctcaagtccttgagcc 5093
|||||
Sbjct: 41404754 gcctctcaagtccttgagcc 41404735

Score = 79.8 bits (40), Expect = 7e-12
Identities = 58/64 (90%)
Strand = Plus / Plus

Query: 5123 aattgttacaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttt
5182
||||| ||||||| ||||||| ||||||| ||||||| ||||
Sbjct: 46921863 aattgtcacaaaatttattattcaaatttacatgcacattaaatatacattagaaatgtt
46921922

Query: 5183 agtg 5186
||||

Sbjct: 46921923 agtg 46921926

Score = 77.8 bits (39), Expect = 3e-11
 Identities = 57/63 (90%)
 Strand = Plus / Plus

Query: 5130 acaaaatattattatctaaatttgcacatgcacataataacattagaaatatttagtggtta
 5189

|||||
 Sbjct: 17122589 acaaaatattattatgtaaatttacatgtacattaaatacaaaattagaaatatttagtggtta
 17122648

Query: 5190 tat 5192
 |||
 Sbjct: 17122649 tat 17122651

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 49/53 (92%)
 Strand = Plus / Minus

Query: 5014 ataattttaataaattatatttatgaataaataaaaagggttttattcttaaattt 5066
 |||||
 Sbjct: 2167080 ataattttaataaattatatttatgagtaaataaaaatatattttatttttaaattt 2167028

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 107/128 (83%), Gaps = 3/128 (2%)
 Strand = Plus / Plus

Query: 3756 ttggtatcattaatgaaaattcaccaacaaatgcacatccagtgaactg--actaccag
 3813

|||||
 Sbjct: 11726629 ttggtatcattaatgaaagctcaccaagtaaattgcattcaggaaagactgtgattaccag
 11726688

Query: 3814 tgaccacaaccctcaaacttgagactgttacagtctcgatagcaattgttaggaagtgggt
 3873

|||||
 Sbjct: 11726689 tgaccatg-cactcaaactggagactgttcctgattggatagcaattgttaggaagtgggt
 11726747

Query: 3874 atattggc 3881
 |||||

Sbjct: 11726748 atattggc 11726755

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 234/300 (78%), Gaps = 6/300 (2%)
 Strand = Plus / Minus

Query: 7463 aaatcattaaataataacaattacaatcaaataatttggggaggggg-----tcttcaaa
 7516

Sbjct: 15164819 aaatcattaaataataaaaatagcaaacaataaattgggggggggggggggttcatcaaa
 15164760

Query: 7517 acttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaaga
 7576

Sbjct: 15164759 actcaattcaagggttcattgatttagcgagggtattcattgaaaccctcaaaattgaaaga
 15164700

Query: 7577 gcttgcagaaaactggtggtggttgtgcatatgtttatgtgggtgtgtctacggtgataac
 7636

Sbjct: 15164699 gttgtcagaaattggtggtggatgttcacatgtttgtgtgggtgggtccacaattgtaat
 15164640

Query: 7637 ataaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacatagtaattat
 7696

Sbjct: 15164639 atacaaatccaggcatgtgagcttggagatgtctgcgaacatggaaaacatagtcattac
 15164580

Query: 7697 ttctcatcatcttgcagcatacatgcctgtactgaaaacaatcaccaacaatgatac
 7756

Sbjct: 15164579 attctcatcatcgtgcaacatgcatgccatgtacttgccacaatcaccgacaaatgatac
 15164520

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 133/166 (80%), Gaps = 8/166 (4%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

Sbjct: 16108632 aaaattaattgtcataaaaatttattatgaaaacttatatgtgcattaaatatacatataaa
 16108573

Query: 6745 aggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattcttggct
6804

Sbjct: 37684819 tatgacatggtggccaatacgaattcgttgcacaatttttcaaacaatcctctgtatacgt
37684760

Sbjct: 37684759 | ||| ||||| || |||||| | ||| ||||| ||||| ||||| ||||| |||||
37684700 tggagacactttccaattcatacaaaggatatatgtagttcctgtactcatggtgagcat

Score = 73.8 bits (37), Expect = 5e-10
Identities = 92/109 (84%), Gaps = 1/109 (0%)
Strand = Plus / Plus

Sbjct: 40040186 ||||| | | | | | | | | | | | | | | | | | | | | | | |
 aaaattaattgtcacaaa-tttattatTTaaatttacatgtgtattaaatatattaga
40040244

Score = 71.9 bits (36), Expect = 2e-09
Identities = 69/80 (86%)
Strand = Plus / Minus

Sbjct: 11783598 atagaaaacatagtaattacattctcatcattgtgcaacatgcatgtcctgtactggcca
11783539

Query: 7737 caatcaccaacaaatgatac 7756
|||||
Sbjct: 11783538 caatcaccaacaaatgatac 11783519

Score = 71.9 bits (36), Expect = 2e-09
Identities = 54/60 (90%)
Strand = Plus / Plus

Query: 4817 aatatcatagctttgtttagaaaaaagagatttaataattaatagctaagaaatccaa
4876
||||| ||||| ||||||| ||||||| ||||||| || ||||| ||||||| |||||||
Sbjct: 22266698 aatatgatagggtttgtttagaaaaaagaaatttaacaagtaataactaaagaaatccaa
22266757

Score = 71.9 bits (36), Expect = 2e-09
Identities = 93/112 (83%)
Strand = Plus / Minus

Query: 5228 tattagttcagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattctt
5287
||||| ||||||| ||||||| || || || ||||||| ||||||| | | || | |||||||
Sbjct: 31054803 tattagctcagttagttagagtggtgtgctaataacctgaaagttataggtccgattctt
31054744

Query: 5288 acttggatcattaattttaaaattaatttgtaaaatatatttttgaaaaaaaaa 5339
|| ||| ||||||| ||||||| |||| | ||||||| |||||||
Sbjct: 31054743 gctcggaccattaattttaaaattaatttagtaacacatatatttttgaaaaaaaaa 31054692

Score = 71.9 bits (36), Expect = 2e-09
Identities = 93/112 (83%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221
||||| ||||||| ||||||| |||| || ||||||| |||||||
Sbjct: 31057534 taaatatacattaaaaattttaagtgttatatatagcgacgctaattattttttaacataa
31057593

Query: 5222 ttgatgtattagttcagttggttagagcattatgttaataatgtgaaagtca 5273
|||| |||| | |||||| |||||| |||| |||||| |||||||
Sbjct: 31057594 ttgacctattcattgagttgattagagtggttatgataataacatgaaagtca 31057645

Score = 71.9 bits (36), Expect = 2e-09
Identities = 81/96 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| ||||| ||||| || ||||| |||
Sbjct: 32476426 aaaattaatttttacaaaatttattatgtaaatttatacgtgttttaaataatatattata
32476485

Query: 5177 aatttttagtggttatatttagtgaaattaattatttt 5212
 ||||| ||||| ||||| |||||
Sbjct: 32476486 aatttttagtattatatatagtgacattaattatttt 32476521

Score = 71.9 bits (36), Expect = 2e-09
Identities = 42/44 (95%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351
 ||||| ||||| ||||| |||||
Sbjct: 47043556 attaatttgtaaaatatatttttgaaaaaacaatttttaaaaaaa 47043599

Score = 69.9 bits (35), Expect = 7e-09
Identities = 41/43 (95%)
Strand = Plus / Minus

Query: 6431 tcctttgtatttttattttatttgattattataatacataatt 6473
 ||||| ||||| ||||| |||||
Sbjct: 11787378 tcctttgtattttcattttatttgattattaaaatacataatt 11787336

Score = 69.9 bits (35), Expect = 7e-09
Identities = 53/59 (89%)
Strand = Plus / Minus

Query: 7308 gccaccatcccatgcgagagtccacttttcttgtggaatcttcctaagctaattaattg
7366
 |||| ||||| ||||| ||||| ||||| |||||
Sbjct: 37684305 gccatcatcccatacgagagtccatttttcttgtggaatctcactaagccaattaattg
37684247

Score = 67.9 bits (34), Expect = 3e-08
 Identities = 65/74 (87%), Gaps = 1/74 (1%)
 Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaatttttaaatacaaaacaatatggcataa
 6639
 |||||
 Sbjct: 10160676 aaaatattttaaattttaaacaataca-caaaatttttaaatacaaaaaatatgacataa
 10160618

Query: 6640 aattaatggttggtg 6653
 | | | |
 Sbjct: 10160617 attcaacggttggtg 10160604

Score = 67.9 bits (34), Expect = 3e-08
 Identities = 61/70 (87%)
 Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataaataacattagaaatttttagtggtta
 5189
 |||||
 Sbjct: 11891551 acaaaatttattatgttaaatttacctgtatattaaatataaaattaaaaatttttagtggtta
 11891610

Query: 5190 tatttagtga 5199
 | | | |
 Sbjct: 11891611 tatatagtga 11891620

Score = 67.9 bits (34), Expect = 3e-08
 Identities = 40/42 (95%)
 Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaa 5337
 |||||
 Sbjct: 22633098 cattaatttttaaattaatttcgtaaaacatatatttttgaaaaaa 22633057

Score = 65.9 bits (33), Expect = 1e-07
 Identities = 80/93 (86%), Gaps = 2/93 (2%)
 Strand = Plus / Minus

Query: 5130 acaaaatattattatctaaatttgcacatgcacaataaatatacattagaaatatttagtggtta
5189

|||||
Sbjct: 14869538 acaaaatattattatataaaatttacatgtacattaa-tataaattataaaatatttagtggtta
14869480

Query: 5190 tatatttagtgaaattaattattttataacataat 5222

||| ||| || | || ||| |||||
Sbjct: 14869479 tatatagcgacactatttta-tttataacataat 14869448

Score = 65.9 bits (33), Expect = 1e-07
Identities = 58/65 (89%), Gaps = 1/65 (1%)
Strand = Plus / Minus

Query: 6488 ttgaaatta-aaaaatatatatatttaactgacaagttgacttgaactaaaatattttaatt
6546

|||||
Sbjct: 48214281 ttgaaattataaaaaacacatatgtaaccaacaagttgaattgaactaaaatattttaatt
48214222

Query: 6547 acaaa 6551

|||||
Sbjct: 48214221 acaaa 48214217

Score = 65.9 bits (33), Expect = 1e-07
Identities = 69/81 (85%)
Strand = Plus / Minus

Query: 5014 ataattttaataaaattattttatgaataaaataaaaagggtttattcttaaatttgcttgag
5073

|||||
Sbjct: 49274067 ataattttaataaaactattttataaaataaaaatattttatttttaaaatttatttttag
49274008

Query: 5074 ccctctcaagtccttgagccg 5094

| |||||
Sbjct: 49274007 acatctcaagtccttaagccg 49273987

Score = 63.9 bits (32), Expect = 4e-07
Identities = 56/64 (87%)
Strand = Plus / Minus

Query: 6582 aatattttaatttgaaataataacaacaaaaattttaaaatacaaacaatatggcataaaa
 6641

|||||
 Sbjct: 37685064 aatattttaatttgaaacaacacaaaaaatgtttaaaatacaaagaatatgacataaat
 37685005

Query: 6642 ttaa 6645

||||
 Sbjct: 37685004 ttaa 37685001

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 38/40 (95%)
 Strand = Plus / Plus

Query: 6393 tgcataatatttatgttttatcattttttaagagttgaaatc 6432

|||||
 Sbjct: 48203550 tgcataatatttatgttttaccattttttaagagttgaaatc 48203589

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 72/84 (85%), Gaps = 1/84 (1%)
 Strand = Plus / Plus

Query: 5165 atatacattagaaatatttagtggttatatttagtgaaattaattattttataacataattg
 5224

|||||
 Sbjct: 50691564 atatatattagaaatattgagtggttatatatatcgacattaattacttt-taacataattg
 50691622

Query: 5225 atgtattagttcagttggtagag 5248

|| |||||
 Sbjct: 50691623 atatatagcttagttgattagag 50691646

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 97/118 (82%), Gaps = 2/118 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcata--cacaataaatatacat
 5174

|||||
 Sbjct: 8621886 aaaattaattattataaaatttattatgttaaacttatatgtatatattaaatatatta
 8621945

Query: 5175 gaaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtatta
5232

||||| ||||||||| || | | ||||||||| ||| ||||||||| ||| |||||
Sbjct: 8621946 gaaatattagtgTtatatatattaatattaattaattTTTaacataattaatctatta
8622003

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Minus

Query: 5130 acaaaatTTtattatctaaatTTgcatgcacaataaatatacattagaaatTTtagtgTta
5189

||||||| ||||||| ||| ||| ||||||||| ||||| ||||||||| ||| |
Sbjct: 23163855 acaaaatTTtattatgTtaaTTTacaTatacattaaatataaaattataaaatTTtagtgTca
23163796

Query: 5190 tat 5192
|||
Sbjct: 23163795 tat 23163793

Score = 62.0 bits (31), Expect = 2e-06
Identities = 34/35 (97%)
Strand = Plus / Plus

Query: 5014 ataatTTTaataaaattatTTTatgaataaaataaaa 5048
||||||| ||||||| ||||||| |||||
Sbjct: 47243642 ataatTTTaataaaattatTTTataaaataaaataaaa 47243676

Score = 62.0 bits (31), Expect = 2e-06
Identities = 37/39 (94%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgCGagagtcca 7331
||||||| ||||| ||||||||| ||||||||| ||||||||| |||||
Sbjct: 48213408 gtgtccctatcgTcagccaccatcccatgCGagagtcca 48213370

Score = 60.0 bits (30), Expect = 7e-06
Identities = 54/62 (87%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTTtagtgTTatatttagtgaaattaattattttataacataa
5221
 ||||| ||| || ||||||||| || | ||||| ||||||||| |||
Sbjct: 1244548 taaatataatataaaaaatTTtagtgTTatataataaaaattatttattttataatataa
1244489

Query: 5222 tt 5223
 ||
Sbjct: 1244488 tt 1244487

Score = 60.0 bits (30), Expect = 7e-06
Identities = 30/30 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggct 1672
 |||||||||||||||||||||||||||||
Sbjct: 1871206 aacgccttatcccactaggtggggtcggct 1871235

Score = 60.0 bits (30), Expect = 7e-06
Identities = 42/45 (93%), Gaps = 2/45 (4%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaattataaaaaaat 5352
 |||||||||||||||||||||||| || |||||||||||||
Sbjct: 4121611 attaatttgtaaaatatatttttg--aaacaaattataaaaaaat 4121653

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Plus

Query: 5291 tggatcattaatttttaaattaatttgtaaaatat 5324
 |||| |||||||||||||||||||||||||
Sbjct: 43790119 tggaccattaatttttaaattaatttgtaaaatat 43790152

Score = 60.0 bits (30), Expect = 7e-06
Identities = 30/30 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggct 1672
 |||||||||||||||||||||||||||||

Query: 5255 gttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaattaatt
5314

||||| |||| ||| | ||||| |||| | ||| ||||| ||||| |||||
Sbjct: 2760436 gttaataacctgaaattcacaggttcaaattcttgcacatgggacattaaatttaaattaatt
2760377

Query: 5315 tgtaaaatatatatttttgaaaaaaaaattataaaaaaa 5351
||||||| ||| ||||| ||||| |||||
Sbjct: 2760376 tgtaaaatatatattttt-----aaaaaaattataaaaaaa 2760345

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Plus

Query: 5294 atcattaatttttaaattaatttgtaaaatatatattttt 5330
||||||| ||||| ||||| ||||| |||||
Sbjct: 8622055 atcattaatttttaaattattttataaaaatatatattttt 8622091

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggtacatggatca 1682
||||||| ||||| ||||| ||||| |||||
Sbjct: 15615980 gccttatcccactaggtgaggttggtacatggatca 15616016

Score = 58.0 bits (29), Expect = 3e-05
Identities = 47/53 (88%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaaaaagggttttattcttaaattt 5066
||||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 22266814 ataattttaataaactattttatgtattaataaaaagtttttaattttaaattt
22266866

Score = 58.0 bits (29), Expect = 3e-05
Identities = 53/61 (86%)
Strand = Plus / Minus

Query: 5132 aaaattttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtata
5191
||||||| ||||| ||| ||| ||||| ||||| ||||| ||||| |||||

Sbjct: 23164021 aaaatttattatgttaaatttacatatacattaaatataaaattataaatttttagtgtcata
 23163962

Query: 5192 t 5192
 |
 Sbjct: 23163961 t 23163961

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 56/65 (86%)
 Strand = Plus / Plus

Query: 5128 ttacaaaatttattatctaaatttgcacatgcacaataaaatatacattagaaatttttagtgt
 5187
 |||||
 Sbjct: 44328938 ttacaaaatttattatgttaaatttaaataacattaaatataaaattaaaaatttttagtat
 44328997

Query: 5188 tatat 5192
 |||||
 Sbjct: 44328998 tatat 44329002

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 41/45 (91%)
 Strand = Plus / Minus

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttGaaaaaaaaat 5341
 |||||
 Sbjct: 46569060 attattttTaaattaatttGTaaaacatatattttTaaacaaaaaat 46569016

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 44/49 (89%)
 Strand = Plus / Plus

Query: 5203 taattattttataacataattgatgtattagttcagttggtagagcat 5251
 |||||
 Sbjct: 49374137 taattattttataacataattgggttcattagtttagctggtagagcat 49374185

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 29/29 (100%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggc 1671
 |||||
Sbjct: 50801719 aacgccttatcccactaggtggggtcggc 50801691

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttcc 2046
 |||||
Sbjct: 10001047 actttattctcatggttggtcttttaccgcctaacattcagttcc 10001004

Score = 56.0 bits (28), Expect = 1e-04
Identities = 52/60 (86%)
Strand = Plus / Plus

Query: 5559 aaaaaaaaaacaagtaataaaaaactatgaacccaaatagagtaattttataactattta
5618
 |||||
Sbjct: 12805552 aaaaaaaaaagcaagtaataaaaaattatgtaacaaagtacaataattttaaaactattta
12805611

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 5291 tggatcatthaatttttaaattaatttgtaaaatatatattttt 5330
 |||||
Sbjct: 31057665 tggatcatthaatttttaaattatttttctaaaacatatattttt 31057704

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 6431 tcctttgtattttttattttatttgattattataataacata 6470
 |||||
Sbjct: 48214322 tcctttgcatttttaattttatttgattattaaaatacata 48214283

Score = 56.0 bits (28), Expect = 1e-04
 Identities = 164/208 (78%), Gaps = 1/208 (0%)
 Strand = Plus / Plus

Query: 5123 aattggtacaaaatttattatctaaatttgcacataaaatatacattagaaatttt
 5182
 |||||
 Sbjct: 48834465 aattggtacaaaatttattatctaaatttgcacataaaatatacattagaaatttt-
 48834523

Query: 5183 agtggttatatttagtgaaattaattattttataacataattgatgtattagttcagttgg
 5242
 |||||
 Sbjct: 48834524 attggttatatttagtgaaattaattattttataacataattgatgtattagttcagttgg
 48834583

Query: 5243 ttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaat
 5302
 |||||
 Sbjct: 48834584 ttagatcataatgctaataacgtgaaaatcacaaattcgaaacctgcatgaactattaat
 48834643

Query: 5303 tttaaattaatttgtaaaatatattttt 5330
 |||||
 Sbjct: 48834644 tttaaataatttgtaaaatatattttt 48834671

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 54/63 (85%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattag
 5175
 |||||
 Sbjct: 1822559 aaaaattaattgtcacgaaatttattatttaaatttacacgtgcattaaatatacatcag
 1822500

Query: 5176 aaa 5178
 |||
 Sbjct: 1822499 aaa 1822497

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 30/31 (96%)
 Strand = Plus / Minus

Query: 4757 ataactgttaatctttttattgataccgtaa 4787
 |||| |
Sbjct: 41404897 ataaatgttaatctttttattgataccgtaa 41404867

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttt 5329
 |||| |
Sbjct: 47467659 tcattaatttttaaattagtttgtaaaatatattttt 47467693

Score = 52.0 bits (26), Expect = 0.002
Identities = 38/42 (90%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaa 5338
 |||| |
Sbjct: 922930 attaatttttaaattaattcctaaaacatatatttttaaaaaaaa 922889

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 5291 tggatcattaatttttaaattaatttgtaaaatat 5324
 |||| |
Sbjct: 12306233 tggaccattaatttttaaattatttttgtaaaatat 12306266

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 1649 ttatcccactaggtggggctcggtacatggatca 1682
 |||| |
Sbjct: 18008065 ttatcccactaggtgaggtcggttacatggatca 18008098

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)

```
Query: 5162      taaatatacattagaaaatttttagtggttatattttagtgaaattaattattttataacataa
5221            ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 1600571   taaatatacattaaaaattttaat--tatatataataatattaattattttttaataataa
1600514
```

Query: 5222 ttgatgtatta 5232
 ||||| |||||
Sbjct: 1600513 ttgatctatta 1600503

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcag 5156
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4121433 aaaatcaattgtcacaaaatttattatttaaatttacag 4121472

Score = 48.1 bits (24), Expect = 0.026
Identities = 40/44 (90%), Gaps = 1/44 (2%)
Strand = Plus / Plus

Query: 4828 tttgttttagaaaaaaagagatttaataattaatagctaaagaaa 4871
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9016621 tttgttttagaaaaaa-gagatttaatagtttagtagttaagaaa 9016663

Score = 48.1 bits (24), Expect = 0.026
Identities = 39/44 (88%)
Strand = Plus / Minus

Query: 6733 tgtgtatacgagaggagacatgacaacctttagaatttcttttc 6776
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10160502 tgtgaatacgagaggagacaggacaacccttataatttttttttc 10160459

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 1203 ctttctcggccttttggctaagatcaagtgtgta 1234
 ||||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10534908 ctttgtcgaccttttggctaagatcaagtgtgta 10534939

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5329 ttgaaaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 13120446 ttgaaaaaaaaattataaaaaaat 13120469

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaa 5571
 |||||
Sbjct: 15353910 ttttttttaaaaaaaaaaaaaaa 15353887

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 5299 taatttttaaatatttgtaaaatatatttttgaaa 5334
 ||||| |||||
Sbjct: 32724445 taatttttaaatatttcataaaacatatatttttgaaa 32724410

Score = 48.1 bits (24), Expect = 0.026
Identities = 39/44 (88%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaattacaaaatagatat 6559
 ||||| ||||| |||||
Sbjct: 37695849 acaagttgaattgaattaaaaaatttaaattacaatatatatat 37695806

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 5325 atttttgaaaaaaaaattataaaaaaat 5352
 ||||| |||||
Sbjct: 40039966 atttttgaaaaaaaaattataaaaaaat 40039993

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5298 ttaatttttaaattaatttgtaaaatatatattt 5329
 ||||| ||||||||||||| |||||||||||||
Sbjct: 42298351 ttaatatataaattaattttttaaatatatattt 42298382

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 5299 taatttttaaattaatttgtaaaatatatattt 5330
 ||||||||||||| ||||||||| |||||||||
Sbjct: 48834148 taattttaaattatttttgtaaaacatatattt 48834117

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||||||
Sbjct: 1266557 actttttttttaaaaaaaaaaaaaa 1266579

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaat 5149
 ||||||||||||| | ||||||||||||||| |||||
Sbjct: 8626541 aaaaaattaattatcacaaaatttattatgttaa 8626575

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaaactaaaatatattaaatt 6546

```
          ||||| | |||||
Sbjct: 10160693 acaagttaaattgaactaaaatatttaaatt 10160663
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

```
Query: 6054      aataataaaaaaaaaattaattat 6076
                |||||
Sbjct: 11300492 aataataaaaaaaaaattaattat 11300470
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 38/43 (88%)
Strand = Plus / Plus

```
Query: 2480      aagggtccaatattgaaagaattttaggggttttcttgacttt 2522
                ||||| ||||| || ||||| |||||
Sbjct: 11939307 aagggtccaatattgaaagaatttcagagggtttccttgacttt 11939349
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 62/75 (82%)
Strand = Plus / Plus

```
Query: 5256      ttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaattaattt
5315
                ||||| || || || ||||| || ||||| ||||| ||||| ||||| |||||
Sbjct: 14870268 ttaataatgtaagagacacaagtttgatccttacttgaatcattcatttttaaattaaatc
14870327
```

```
Query: 5316      gtaaaatatatTTTT 5330
                ||| |||||
Sbjct: 14870328 ataaattatatTTTT 14870342
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

```
Query: 5117      aaaattaattgttacaaaatttattatctaaattt 5151
                ||||| || || ||||| ||||| |||||
Sbjct: 46569211 aaaattaattatcataaaaatttattatctaaattt 46569177
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 48441617 cttatcccactagatgaggttggtacatggatca 48441651

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5228 tattagttcagttggttagagc 5249
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1600032 tattagttcagttggttagagc 1600053

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3064814 aaattaaaaaatatatatttaa 3064835

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3754193 ctttttttttaaaaaaaaaaaaaa 3754172

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6490 gaaattaaaaaatatatattta 6511
|||||
Sbjct: 5374670 gaaattaaaaaatatatattta 5374691

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 7714427 ctttttttttaaaaaaaaaaaaaa 7714448

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 1228 aagtgtagtatctgttcttatcagtt 1253
|||| |
Sbjct: 8066923 aagtatagtatctgttcttatcagtt 8066898

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
|||||
Sbjct: 8935257 ttttttttaaaaaaaaaaaaaaac 8935278

Score = 44.1 bits (22), Expect = 0.41
Identities = 43/50 (86%)
Strand = Plus / Plus

Query: 5017 attttaataaattattttatgaataaaaagggttttattcttaaattt 5066
|||| |
Sbjct: 9016690 atttttataaactattttataaataaaaatatcttatttttaaattt 9016739

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)

Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 9368507 ctttttttttaaaaaaaaaaaaaa 9368486
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttttaaaaaaaaaaaaaaac 5569
                |||||||||||||||||||
Sbjct: 11634534 ttttttttttaaaaaaaaaaaaaaac 11634555
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Plus

```
Query: 1646      gccttatcccactaggtggggtcggctacatggatcaa 1683
                ||||| ||||| ||||| ||| |||||||||||||||
Sbjct: 13204276 gccttgtcccattaggtgaggttggtacatggatcaa 13204313
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5330      tgaaaaaaaaattataaaaaaa 5351
                |||||||||||||||||||
Sbjct: 13732722 tgaaaaaaaaattataaaaaaa 13732701
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 6490      gaaattaaaaaatatatattta 6511
                |||||||||||||||||||
Sbjct: 14396422 gaaattaaaaaatatatattta 14396401
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatcaa 1683
||||| ||| ||||||||| ||||||||| |||||||
Sbjct: 14864164 gcctcatctcactaggtgaggtcggctacacggatcaa 14864201

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatttttgaaaaaa 5337
||||||||||| ||||||| |||||
Sbjct: 15723364 attaatttgtaaaacatatatttttataaaaaa 15723335

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6266 tttttttttgttttgttttaa 6287
||||||||||| |||||||
Sbjct: 15807666 tttttttttgttttgttttaa 15807645

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5199 aaattaattattttataacataattg 5224
||||||||||| |||||||
Sbjct: 16797278 aaattaattattttataatataattg 16797303

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5566
||||||||||| |||||||
Sbjct: 20504187 aacttttttttaaaaaaaaaa 20504166

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 3973 tataaaaaatttaattgttttttag 3994
 ||||||||||||||||||||
Sbjct: 32722092 tataaaaaatttaattgttttttag 32722071

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5309 ttaatttgtaaaaatatatattttt 5330
 ||||||||||||||||||||
Sbjct: 43169151 ttaatttgtaaaaatatatattttt 43169172

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||||
Sbjct: 47797915 tttttttttaaaaaaaaaaaaaaac 47797894

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 754385 tttttttttaaaaaaaaaaaaaaa 754365

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 997104 tttttttttaaaaaaaaaaaaaa 997124

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6042 ttttttttatccaaataataaaaaaa 6066
 |||||||||| ||||||||||
Sbjct: 1397485 ttttttttatcccaataataaaaaaa 1397509

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 5304 ttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
 |||||| ||| |||||||||||||| ||||||
Sbjct: 1755437 ttaaatttattcataaaatatatttttgataaaaaaa 1755401

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 2259895 tttttttttaaaaaaaaaaaaaa 2259875

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 2261580 tttttttttaaaaaaaaaaaaaa 2261560

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 6058      ataaaaaaaaattaattattt 6078
              |||
Sbjct: 3473111 ataaaaaaaaattaattattt 3473091
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

```
Query: 1646      gccttatcccactaggtggggtcggctacatggatca 1682
              |||
Sbjct: 3551069 gccttatcccactaggtgaggtcaactgcatggatca 3551105
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 6264      cttttttttttgttttgtttt 6284
              |||
Sbjct: 4213801 cttttttttttgttttgtttt 4213821
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
              |||
Sbjct: 4426409 ttttttttaaaaaaaaaaaaaa 4426429
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
              |||
Sbjct: 4610244 ttttttttaaaaaaaaaaaaaa 4610264
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaattt 5151
 ||||| || ||||| |||||
Sbjct: 4789391 aaaaaattaattactataaaaatttattatataaaattt 4789355

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 ||||| |||||
Sbjct: 7232170 ctttttttttaaaaaaaaaaaaaa 7232150

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6059 taaaaaaaaaattaattatttta 6079
 ||||| |||||
Sbjct: 7401940 taaaaaaaaaattaattatttta 7401920

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 6281 ttttaaaattgtttgtatttttatttttt 6309
 ||||| ||||| |||||
Sbjct: 8874349 ttttaaatatgtttgtatttttatttttt 8874321

Score = 42.1 bits (21), Expect = 1.6
Identities = 69/85 (81%)
Strand = Plus / Minus

Query: 7036 tctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaac
7095
 ||||| || ||||| ||||| || ||||| || |||||

Sbjct: 10160271 tctccggtttattgtctcctggactaagaattatgtgtcacatcgactgaactcaagaat
10160212

Query: 7096 aatgtgagagtttgcctttttctgt 7120
 | ||||| || || ||| |||||
Sbjct: 10160211 agtgtgagcgtatgtctttctctgt 10160187

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaattataaaaaaat 5352
 ||||||| ||||| ||||| |||||
Sbjct: 10486994 aaaaaaaaaattataaaaaaat 10486974

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 3712 tgatactgtccctcttgtttt 3732
 ||||||| ||||| ||||| |||||
Sbjct: 11726586 tgatactgtccctcttgtttt 11726606

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6212 ttttcaaaaccaagttaagaa 6232
 ||||||| ||||| ||||| |||||
Sbjct: 12084408 ttttcaaaaccaagttaagaa 12084428

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5308 attaatttgtaaaatatatttttgaaaaaaaaa 5340
 ||||||| ||||| ||||| |||||
Sbjct: 12471358 attaatttgtaaaatatatttttttaagaaaaa 12471390

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 12948108 tttttttttaaaaaaaaaaaaaa 12948088

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 13927758 cttttttttaaaaaaaaaaaaaa 13927738

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4794 ttaataagtaataatttttta 4814
 |||||
Sbjct: 14590618 ttaataagtaataatttttta 14590638

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 2015 tgttggtctcttgaccgccaacattctgt 2043
 ||||| || |||||
Sbjct: 14655798 tgttgacttttgaccgccaacattctgt 14655770

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||

Sbjct: 15019125 ctttttttttaaaaaaaaaaaaaa 15019105

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 15220497 ttttttttttaaaaaaaaaaaaaa 15220517

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6384 aatttcttatgcatattttat 6404
|||||
Sbjct: 15886089 aatttcttatgcatattttat 15886069

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 16932053 ttttttttttaaaaaaaaaaaaaa 16932033

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 22215653 ttttttttttaaaaaaaaaaaaaa 22215633

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6289 ttgtttgtatttttatttttt 6309
 |||||
Sbjct: 24663601 ttgtttgtatttttatttttt 24663621

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 28598028 ttttttttaaaaaaaaaaaaaa 28598048

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 3889 ttgtaaaaatgatttttttta 3909
 |||||
Sbjct: 30402108 ttgtaaaaatgatttttttta 30402088

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 32738769 ttttttttaaaaaaaaaaaaaa 32738749

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 35863792 acttttttttaaaaaaaaaaaaaa 35863772

Score = 42.1 bits (21), Expect = 1.6

Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6492 aattaaaaaatatatatttaa 6512
 |||||
Sbjct: 37477638 aattaaaaaatatatatttaa 37477658

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6446 ttttatttgattattataatacata 6470
 |||||
Sbjct: 37695907 ttttatttgattattataatacata 37695883

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 1647 ctttatcccactaggtggggtcggctacatgga 1679
 |||||
Sbjct: 39246788 ctttatcccactaggtgagatcagctacatgga 39246756

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6264 cttttttttttgttttgtttt 6284
 |||||
Sbjct: 39263529 cttttttttttgttttgtttt 39263509

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 39413982 tttttttttaaaaaaaaaaaaaa 39413962

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaa 5565
 ||||||||||||||||||
Sbjct: 40357218 aactttttttttaaaaaaaaaa 40357198

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttttaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 41253362 cttttttttttaaaaaaaaaa 41253382

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 43519078 actttttttttaaaaaaaaaa 43519058

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 44915799 tttttttttaaaaaaaaaa 44915779

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaa 5568
 ||||||||||||||||||

Sbjct: 45413244 tttttttttaaaaaaaaaaaaaa 45413264

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 4879 gtttttcttttatttttattttggt 4903
||||| ||||||||||||||||
Sbjct: 46529755 gtttttggtttatttttattttggt 46529731

Score = 42.1 bits (21), Expect = 1.6
Identities = 42/49 (85%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattagttcagttggtagagc 5249
|||| |||||||||||| |||||| |||| | ||||||||||||
Sbjct: 46921962 attatttattttataatgtaattgatttattaacttagttggtagagc 46922010

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5543 tgaactttttttttaaaaaaaaaaaaaa 5567
|||| ||||||||||||||||
Sbjct: 47740248 tgaattttttttttaaaaaaaaaaaaaa 47740224

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
||||||||||||||||||
Sbjct: 49000219 tttttttttaaaaaaaaaaaaaa 49000239

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 50198618 ctttttttttaaaaaaaaaaaaaa 50198598

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4880 tttttcttttatttttattt 4899
 |||||
Sbjct: 283153 tttttcttttatttttattt 283172

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2294 ttgaacttacattccatata 2313
 |||||
Sbjct: 360347 ttgaacttacattccatata 360328

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 671879 ctttttttttaaaaaaaaaaaaaa 671860

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatt 5314
 |||||
Sbjct: 1166161 tcattaatttttaaattaatt 1166142

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6301 ttattttttttgttattaat 6320
 |||||
Sbjct: 1299471 ttattttttttgttattaat 1299490

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 2081323 ttttttttaaaaaaaaaaaaa 2081304

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtg 1663
 ||||| |||||
Sbjct: 2297397 acaaaagccttatcccactaggtg 2297374

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 2407164 ttttttttaaaaaaaaaaaaa 2407145

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 2443222 ttttttttaaaaaaaaaaaaa 2443241

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||
Sbjct: 2457904 aaaaaaaaaattataaaaaaa 2457885

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6436 tgtatTTTTtattttatttga 6455
 ||||||||||||||||||
Sbjct: 2894945 tgtatTTTTtattttatttga 2894926

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2136 ttctccatttcatccatcct 2155
 ||||||||||||||||||
Sbjct: 3706225 ttctccatttcatccatcct 3706244

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 3816747 ctttttttttaaaaaaaaaaa 3816728

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5442 aaaaactatgaaccaaatagaca 5465
 ||||||||||| |||||||||||

Sbjct: 3885205 aaaaactatgatccaaaatagaca 3885228

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 4426424 ttttttttaaaaaaaaaaaaaa 4426405

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4881 ttttcttttatttttatttt 4900
|||||||
Sbjct: 4599522 ttttcttttatttttatttt 4599541

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 4647863 ttttttttaaaaaaaaaaaaaa 4647844

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6489 tgaaattaaaaaatatatat 6508
|||||||
Sbjct: 5300586 tgaaattaaaaaatatatat 5300605

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 5331421 ctttttttttaaaaaaaaaa 5331440

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6255 tcttaattgctttttttttt 6274
|||||||
Sbjct: 5430969 tcttaattgctttttttttt 5430950

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
||||||| |||||
Sbjct: 6019317 ttttttttaaaaaaaaaaaaaa 6019340

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
||||||| |||||
Sbjct: 6059385 ttttttttaaaaaaaaaaacacaa 6059362

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5563 aaaaaacaagtaataaaaaa 5582
|||||||
Sbjct: 6216298 aaaaaacaagtaataaaaaa 6216279

Score = 40.1 bits (20), Expect = 6.4

Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 3975 taaaaatttaaatgttttttagcatatttt 4002
 ||||| ||||| |||||
Sbjct: 6619317 taaaaatttaatatttttaacatatattt 6619290

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6301 ttatttttttttgttattaat 6320
 ||||| |||||
Sbjct: 7140261 ttatttttttttgttattaat 7140280

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 7198168 aactttttttataaaaaaaaaaaaaa 7198145

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||| |||||
Sbjct: 8013961 tttttttttaaaaaaaaaaaaaa 8013942

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5552 ttttaaaaaaaaaaaaaaaca 5571
 ||||| |||||
Sbjct: 8912396 ttttaaaaaaaaaaaaaaaca 8912415

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4890 atttttattttggttcctatt 4909
|||||||
Sbjct: 9172832 atttttattttggttcctatt 9172813

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 6205 attttttttttcaaaaccaagttaagaaatcggttc 6240
||||||| | |||| | |||||
Sbjct: 9320479 attttttttttcaaaactatggttatggaatcggttc 9320444

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3893 aaaaatgatttttttttaaatt 3912
|||||||
Sbjct: 9449945 aaaaatgatttttttttaaatt 9449926

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaattataaaaaaat 5352
|||||||
Sbjct: 9580468 aaaaaaaattataaaaaaat 9580487

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1509 actgtaaattctacaattttt 1528
|||||||

Sbjct: 9914461 actgtaaatcttacaatttt 9914480

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 10237298 ttttttttaaaaaaaaaaaaaa 10237317

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
|||||||
Sbjct: 10413180 ttttttttttgttttgtttt 10413199

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6293 ttgtatttttattttttttg 6312
|||||||
Sbjct: 10635552 ttgtatttttattttttttg 10635571

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcctttatttttatttt 4900
|||||||
Sbjct: 11139583 ttttcctttatttttatttt 11139564

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 11634549 tttttttttaaaaaaaaaaaaaa 11634530

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 7377 ttggccttaaaacacacatgacaa 7400
 ||||| ||||||||||||||||||
Sbjct: 11783854 ttggcattaaaacacacatgacaa 11783831

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6443 ttattttatttgattattat 6462
 ||||||||||||||||||
Sbjct: 12054147 ttattttatttgattattat 12054128

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaattt 5151
 ||||||||||||||||||
Sbjct: 12366171 aaaatttattatctaaattt 12366152

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 12543912 tttttttttaaaaaaaaaaaaaa 12543931

Score = 40.1 bits (20), Expect = 6.4

Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5019 ttttaataaattattttatgaataa 5042
 ||||||||||||||||| |||||
Sbjct: 12720937 ttttaataaattattttattaataa 12720914

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||||
Sbjct: 12827029 tttttttttaaaaaaaaaaaaaa 12827010

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||||
Sbjct: 12929167 tttttttttaaaaaaaaaaaaaa 12929148

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||||||||||||||||
Sbjct: 12929152 tttttttttaaaaaaaaaaaaaa 12929171

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6292 tttgtatttttatttttttt 6311
 |||||||||||||||||||||
Sbjct: 12948054 tttgtatttttatttttttt 12948073

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6438 ttttttttttttttttgattatta 6461
 |||||
Sbjct: 13421834 ttttttttttttttttattatta 13421857

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 13553714 tttttttttaaaaaaaataaaca 13553691

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6493 attaaaaaatatatatttaa 6512
 |||||
Sbjct: 14167955 attaaaaaatatatatttaa 14167936

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6488 ttgaaattaaaaaatatata 6507
 |||||
Sbjct: 14920118 ttgaaattaaaaaatatata 14920137

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 |||||

Sbjct: 15120079 ttttttttaaaaaaaaaaaaaa 15120098

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 17285270 ttttttttaaaaaaaaaaaaaa 17285289

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6261 ttgcttttttttttgttttgtttt 6284
||||||| |||||||
Sbjct: 17519816 ttgcttttgttttgttttgtttt 17519793

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 17843344 ttttttttaaaaaaaaaaaaaa 17843363

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6039 agttttttttatccaaataa 6058
|||||||
Sbjct: 18666363 agttttttttatccaaataa 18666344

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 19261296 ttttttttaaaaaaaaaaaaaa 19261315

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4881 ttttcttttatttttatttt 4900
 |||||||
Sbjct: 20198696 ttttcttttatttttatttt 20198715

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5323 atatttttgaaaaaaaaaatt 5342
 |||||||
Sbjct: 22331728 atatttttgaaaaaaaaaatt 22331709

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 22449558 ttttttttaaaaaaaaaaaaaa 22449539

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 23521782 ttttttttaaaaaaaaaaaaaa 23521801

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 24513805 tttttttttaaaaaaaaaaaaaa 24513824

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaaattaa 6072
 ||||||||||||||||||
Sbjct: 24613453 aaataataaaaaaaaaaattaa 24613472

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6225 gttaagaaatcggttccttg 6244
 ||||||||||||||||||
Sbjct: 24717073 gttaagaaatcggttccttg 24717092

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6114 ttttttccttagttaagaaa 6133
 ||||||||||||||||||
Sbjct: 24717102 ttttttccttagttaagaaa 24717121

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 26298576 tttttttttaaaaaaaaaaaaaa 26298595

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5331 gaaaaaaaaaattataaaaaaatga 5354
||||||| |||||||
Sbjct: 26536012 gaaaaaaaaaactataaaaaaatga 26536035

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
||||||| |||||||
Sbjct: 26571828 ttttttttttgttttgtttt 26571809

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5311 aatttgtaaaatatattttt 5330
||||||| |||||||
Sbjct: 27548933 aatttgtaaaatatattttt 27548914

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
||||||| |||||||
Sbjct: 28110383 ttttttttaaaaaaaaaaaaaa 28110364

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6955 tgtgcattttttgaaatttg 6974
||||||| |||||||

Sbjct: 29623871 tgtgcattttttgaaatttg 29623852

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 32737792 ttttttttaaaaaaaaaaaaaa 32737773

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
||||||| |||||||
Sbjct: 32738768 ttttttttaaaaaaaaaaaaaaaca 32738745

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5160 aataaatatacattagaaatttta 5183
||||||| |||||||
Sbjct: 32804218 aataaatatacattagaaatttta 32804241

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5327 ttttgaaaaaaaaattataa 5346
|||||||
Sbjct: 34482847 ttttgaaaaaaaaattataa 34482828

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6955 tgtgcattttttgaaatttg 6974
 |||||||
Sbjct: 34797007 tgtgcattttttgaaatttg 34797026

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5995 atcgaaaaagaaaaagaaa 6014
 |||||||
Sbjct: 34897602 atcgaaaaagaaaaagaaa 34897621

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 34963616 ttttttttaaaaaaaaaaaaaa 34963597

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggcta 1673
 ||||||| ||| |||
Sbjct: 35302297 gccttatcccactaggtgaggtcagcta 35302324

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 35490432 ttttttttaaaaaaaaaaaaaa 35490413

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaaattaa 6072
 ||||||||||||||||||
Sbjct: 37448076 aaataataaaaaaaaaaattaa 37448095

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6229 agaaatcggttccttgaaa 6248
 ||||||||||||||||||
Sbjct: 37696756 agaaatcggttccttgaaa 37696737

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaca 5570
 |||||||||||||| |||||||
Sbjct: 37725050 cttttttttaaaaaagaaaaaaca 37725073

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5564
 ||||||||||||||||||
Sbjct: 39265385 aacttttttttaaaaaaaaaa 39265366

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5564
 ||||||||||||||||||
Sbjct: 39793548 aacttttttttaaaaaaaaaa 39793567

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5327 ttttgaaaaaaaaaattataaaaaa 5350
 |||||||||||||||| |||||
Sbjct: 40040087 ttttgaaaaaaaaaattataaaaaa 40040064

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaa 5566
 ||||||||||||||||
Sbjct: 40312862 ctttttttttaaaaaaaaaa 40312881

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaat 5341
 |||||||||||||||| |||||
Sbjct: 40639499 aaaatatatttttgaaacaaaaat 40639476

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5328 tttgaaaaaaaaaattataaaaaa 5351
 |||| ||||||||||||||||
Sbjct: 42579921 tttgaaaaaaaaaattataaaaaa 42579944

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5311 aatttgtaaaatatattttt 5330
 ||||||||||||||||

Sbjct: 42759738 aatttgtaaaatatatattttt 42759719

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggctcggctacatggatca 1682
|||||
Sbjct: 42840977 ccttatcccactaggtgaattcagctacatggatca 42840942

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5311 aatttgtaaaatatatattttt 5330
|||||
Sbjct: 42988780 aatttgtaaaatatatattttt 42988799

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5311 aatttgtaaaatatatattttt 5330
|||||
Sbjct: 43045914 aatttgtaaaatatatattttt 43045933

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 6058 ataaaaaaaaaattaattatttacccaaa 6085
||||
Sbjct: 43310990 ataataaaaaaataattatttacccaaa 43310963

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5322 tatatTTTTGAAAAAAAAAATTATA 5345
 ||||| |||||||||||||||||||
Sbjct: 43795256 tatatTTTTGAAAAAAAAAATTATA 43795233

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctTTTTTTTTAAAAAAAAAAAA 5566
 |||||||||||||||||||||
Sbjct: 43996801 ctTTTTTTTTAAAAAAAAAAAA 43996820

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 TTTTTTTTAAAAAAAAAAAA 5567
 |||||||||||||||||||||
Sbjct: 44235562 TTTTTTTTAAAAAAAAAAAA 44235543

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5550 TTTTTTAAAAAAAAAAAAAAC 5569
 |||||||||||||||||||||
Sbjct: 44495622 TTTTTTAAAAAAAAAAAAAAC 44495641

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5550 TTTTTTAAAAAAAAAAAAAAC 5569
 |||||||||||||||||||||
Sbjct: 44691349 TTTTTTAAAAAAAAAAAAAAC 44691368

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 7399 aaatatatttttattataaaac 7418
 ||||||||||||||||||
Sbjct: 45443649 aaatatatttttattataaaac 45443630

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaacaa 5571
 ||||||| ||||||||||||||||
Sbjct: 46379684 ttttttttcaaaaaaaaaaaaaacaa 46379661

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5327 ttttgaaaaaaaaaattataa 5346
 ||||||||||||||||||
Sbjct: 46614940 ttttgaaaaaaaaaattataa 46614959

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2585 aatatatttttttctttctaa 2604
 ||||||||||||||||||
Sbjct: 46751801 aatatatttttttctttctaa 46751782

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5311 aatttgtaaaatatattttt 5330
 ||||||||||||||||||
Sbjct: 47674270 aatttgtaaaatatattttt 47674251

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 47854828 tttttttttaaaaaaaaaaaaaa 47854809

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||||| |||||||
Sbjct: 47927150 tttttttttaaaaaaaaaaaaaaaca 47927173

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5540 tattgaactttttttttaaaaaaaaaa 5563
 |||| |||||||
Sbjct: 48164249 tatttaactttttttttaaaaaaaaaa 48164226

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5541 attgaactttttttttaaaaaaaaaa 5564
 ||||||| |||||||
Sbjct: 48312591 attgaagtttttttttaaaaaaaaaa 48312568

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5555 taaaaaaaaaaaaacaagta 5574
 |||||||

Sbjct: 48681292 taaaaaaaaaaaaacaagta 48681273

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5325 atttttgaaaaaaaaaattat 5344
|||||||
Sbjct: 49090827 atttttgaaaaaaaaaattat 49090846

>[gb|CM000847.1](#) Glycine max chromosome 14, whole genome shotgun sequence
Length = 49711204

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 12585522 aacgccttatcccactaggtggggtcggctacatggatcaatttccgccataatgttcta
12585463

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 12585462 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
12585403

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 12585402 atagtctttttgggtcttcctctgcctcgaattgtttgttttctctccatctgggtctact
12585343

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||||
Sbjct: 12585342 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
12585283

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
|||||||
Sbjct: 12585282 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
12585223

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 12585222 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
12585163

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 12585162 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
12585103

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 12585102 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
12585043

Query: 2123 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 12585042 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
12584983

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 12584982 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
12584923

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 12584922 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
12584863

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 12584862 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
12584803

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 12584802 ctccaagtttccaacctctcattcaactcctccctcaactctccaaggaggactatgtca
12584743

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 12584742 tctgcaaaaagcatgcatctcggcgctatctcttg 12584708

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 14006587 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
14006528

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 14006527 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
14006468

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822
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Sbjct: 14006467 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
14006408

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctattt
1882
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Sbjct: 14006407 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctattt
14006348

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 14006347 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
14006288

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 14006287 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccactacacct
14006228

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttcggtacaaaatcgccgggt
2062

Sbjct: 14006227 |||||
14006168 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggg

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 14006167 |||||
14006108 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

Sbjct: 14006107 || |||||
14006048 actcccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

Sbjct: 14006047 |||||
14005988 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

Sbjct: 14005987 |||||
14005928 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

Sbjct: 14005927 |||||
14005868 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

Sbjct: 14005867 |||||
14005808 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

Sbjct: 14005807 |||||
tctgcaaaaagcatgcatctcggcgctatctcttg 14005773

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 28458487 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
28458546

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 28458547 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
28458606

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 28458607 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
28458666

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 28458667 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
28458726

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 28458727 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
28458786

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 28458787 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
28458846

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 28458847 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
28458906

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 28458907 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
28458966

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 2182
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 Sbjct: 28458967 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 28459026

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
 2242
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 Sbjct: 28459027 ttaatttcccatcatcctgtattatagaccaagatatattaaaccgtgtgacttgaggg
 28459086

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302
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 Sbjct: 28459087 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 28459146

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362
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 Sbjct: 28459147 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 28459206

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422
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 Sbjct: 28459207 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 28459266

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
 ||||||||||||||||||||||||||||||||||||
 Sbjct: 28459267 tctgcaaaaagcatgcatctcggcgctatctcttg 28459301

Score = 1568 bits (791), Expect = 0.0
 Identities = 809/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 4944079 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 4944020

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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Sbjct: 4944019 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
4943960

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 4943959 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctcttcatctgggtctatt
4943900

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

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Sbjct: 4943899 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
4943840

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 4943839 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
4943780

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002

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Sbjct: 4943779 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatttccgtacaccg
4943720

Query: 2003 actttattctcatgttgggtctttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 4943719 actttattctcatgttgggtctttgaccgcccacattctgttccgtacaaaatcgccggt
4943660

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 4943659 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
4943600

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

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Sbjct: 4943599 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
4943540

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 4943539 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 4943480

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 2302

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 Sbjct: 4943479 ataatatgatctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 4943420

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
 2362

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 Sbjct: 4943419 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
 4943360

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 4943359 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 4943300

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 4943299 tctgcaaaaagcatgcatctcggcgctatctcttg 4943265

Score = 1560 bits (787), Expect = 0.0
 Identities = 808/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 14902504 aacgccttatccactaggtggggtcggctacatggatcaacttccaccataatgttcta
 14902563

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 14902564 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 14902623

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 14902624 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 14902683

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 14902684 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
14902743

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 14902744 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
14902803

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 14902804 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
14902863

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 14902864 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
14902923

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 14902924 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
14902983

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 14902984 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
14903043

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 14903044 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
14903103

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 14903104 ataatatggtctcctatctttcacctctgagttagaaaccctccttcttttgttgaactta
14903163

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 14903164 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
14903223

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 14903224 ctccaagtttccaacctctcattcaactcctcccttgactctccaaggaggattatgtca
14903283

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|
Sbjct: 14903284 tatgcaaaaagcatgcatctcggcgctatctcttg 14903318

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 33954586 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
33954527

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 33954526 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
33954467

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 33954466 atagtctttttgggtcttctctgcctcgaattatttgtcttctctccatctgggtctact
33954407

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 33954406 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
33954347

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 33954346 tccaccatcttctctacaataggtgctactccaaccctctctctaatagtttcgtttcta
33954287

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 33954286 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
33954227

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 33954226 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
33954167

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 33954166 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
33954107

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 33954106 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
33954047

Query: 2183 tcaattttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 33954046 tcaattttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
33953987

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 33953986 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
33953927

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 33953926 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagaactcgt
33953867

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 33953866 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
33953807

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||| ||||||||||||||| |||||||||
Sbjct: 33953806 tctgcaaaagagcatgcatctcggcactatctcttg 33953772

Score = 1544 bits (779), Expect = 0.0
Identities = 800/807 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 44244459 aacgccttatccactatgtagggtcggctacatggatcaacttccgccataatgttcta
44244518

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 44244519 tcaagtaccatacttctatccaaatcattaagttcgagatcatttttgataacctctctt
44244578

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822
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Sbjct: 44244579 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
44244638

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 44244639 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
44244698

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 44244699 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
44244758

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 44244759 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
44244818

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 44244819 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
44244878

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 44244879 cttaccgcagtcgataaaaactttccctttagcttgataggtacctttgcatcacataac
44244938

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 44244939 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
44244998

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 44244999 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
44245058

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 44245059 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
44245118

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 44245119 cattccatatacttcgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
44245178

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 44245179 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
44245238

Query: 2423 tctgcaaaaagcatgcatctcggcgct 2449

|||||
Sbjct: 44245239 tctgcaaaaagcatgcatctcggcgct 44245265

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 46687632 aacgccttatccactaggtggggctcggctacatggatcaacttctgccataatggttcta
46687573

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 46687572 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
46687513

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgcttctctccatctgggtctact
1822

|||||
Sbjct: 46687512 atagtctttttaggtcttctctgcctcgaatagtttgcttctctccatctgggtctact
46687453

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctattt
1882

|||||
Sbjct: 46687452 ctctcactacagagtctatcggtcttctctctacatgccccaaaccacctaaggtctattt
46687393

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 46687392 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
46687333

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 46687332 attttatcctgtcgagtcttaccacacattcaccgcaacatcctcatctccgctacacct
46687273

Query: 2003 actttattctcatggtgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 46687272 actttattctcatggtgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
46687213

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 46687212 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 46687153

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182

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 Sbjct: 46687152 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 46687093

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 46687092 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
 46687033

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
 2302

|||||
 Sbjct: 46687032 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
 46686973

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 46686972 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 46686913

Query: 2363 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 46686912 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 46686853

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 46686852 tctgcaaaaagcatgcatctcggcgctatctcttg 46686818

Score = 1531 bits (772), Expect = 0.0
 Identities = 806/816 (98%), Gaps = 1/816 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcgctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 14658902 aacgccttatcccactaggtggggcgctacatggatcaacttccgccataatgttcta
 14658961

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 14658962 tcaagtaccatacttctatccaaaccattgagttcgagatcctttttgataacctctctt
14659021

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 14659022 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
14659081

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 14659082 ctcttactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
14659141

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 14659142 tccaccatcttctctacaatcggcgctactccaaccctctctctaatagtctcgtttcta
14659201

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 14659202 attttatcctatcgagtcttaccacacatccaccgcagcatcctcatctccgctacacct
14659261

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 14659262 actttattctcatgttgggtcttgaccgcccagcattctgttccgtacaaaatcgccggt
14659321

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 14659322 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
14659381

Query: 2123 a-ccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
2181

|||||
Sbjct: 14659382 a-ccccgatgctttttctccatttcatccatcccgttgaatgcgatgattcacatcccc
14659441

Query: 2182 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2241

|||||
Sbjct: 14659442 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
14659501

Query: 2242 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
2301

|||||
Sbjct: 14659502 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
14659561

Query: 2302 acattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcg
2361

|||||
Sbjct: 14659562 acattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcg
14659621

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

|||||
Sbjct: 14659622 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
14659681

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 14659682 atctgcaaaaagcatgcatctcggcgctatctcttg 14659717

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 12258808 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
12258867

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 12258868 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
12258927

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||

Sbjct: 12258928 atagtctttttgggtcttctctgacctgaattgtttgcttctctccatctggtatact
12258987

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

Sbjct: 12258988 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
12259047

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

Sbjct: 12259048 tccaccattttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
12259107

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 12259108 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctactcct
12259167

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

Sbjct: 12259168 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
12259227

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 12259228 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
12259287

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

Sbjct: 12259288 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
12259347

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

Sbjct: 12259348 tcaatttctccatcatcctgtattacagatccaagatatattaaaccgtgtgacttgaggg
12259407

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 12259408 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
12259467

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 12259468 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgt
12259527

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 12259528 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
12259587

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 12259588 tctgcaaaaagcatgcatctcgggtgctatctcttg 12259622

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 23201613 aacgccttatcccactagatggggtcggctacatggatcaacttccgccataatgttcta
23201554

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 23201553 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
23201494

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 23201493 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
23201434

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 23201433 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
23201374

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 23201373 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
23201314

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 23201313 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
23201254

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 23201253 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
23201194

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 23201193 cttaccgcagtcgcgataaaaactttcgctttagcttgatcggtatctttgcatcacataac
23201134

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 23201133 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccca
23201074

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 23201073 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
23201014

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 23201013 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
23200954

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 23200953 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
23200894

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 23200893 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
23200834

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 23200833 tctgcaaaaagcatgcatctcggcgctatctcttg 23200799

Score = 1521 bits (767), Expect = 0.0
Identities = 803/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 18275881 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatattcta
18275822

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 18275821 tcaaataccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
18275762

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 18275761 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctagtctact
18275702

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcatttt
1882

|||||
Sbjct: 18275701 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcattgt
18275642

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 18275641 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
18275582

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 18275581 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccactacacct
18275522

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 18275521 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
18275462

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 18275461 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
18275402

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 18275401 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
18275342

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 18275341 tcaatttccccatcatcctgtattacaaacccaagatatttaaaccgtgtgacttgaggg
18275282

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 18275281 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
18275222

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18275221 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
18275162

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 18275161 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18275102

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 18275101 tctgcaaaaagcatgcatctcgacgctatctcttg 18275067

Score = 1521 bits (767), Expect = 0.0
Identities = 804/815 (98%), Gaps = 1/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 43726621 aacgccttatcccactaggtgggg-cggctacatggatcaacttccgccataatgttcta
43726563

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 43726562 tcaagtaccatacttctatccaaatcattaagttcgagatcatttttgataacctctctt
43726503

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 43726502 atagtctttttgggtcttctctgcctcgaatagtttgtcttctctccatctgggtctact
43726443

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
1882
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Sbjct: 43726442 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagttctattt
43726383

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
1942
|||||
Sbjct: 43726382 tccaccatcttctctacaataggcactactccaaccctctctctaatagttctgtttctg
43726323

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 43726322 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
43726263

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 43726262 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
43726203

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 43726202 cttaccgcagtcgataaaaactttctcttttagcttgatcggtacctttgcatcacataac
43726143

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 43726142 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
43726083

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 43726082 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
43726023

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 43726022 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
43725963

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 43725962 cattccatataactccgatttgcttctgcttaggcgaaaagccatgtgtttctagagctcgt
43725903

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 43725902 ctccaagtttccaacctctcattcaactcctccctcaactctccaaggacgactatgtca
43725843

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 43725842 tctgcaaaaagcatgcatctcggcgctatctcttg 43725808

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 19116300 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
19116241

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 19116240 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
19116181

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 19116180 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
19116121

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 19116120 ctctcactactgagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
19116061

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 19116060 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
19116001

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 19116000 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19115941

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 19115940 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaattgccggt
19115881

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 19115880 cttatcgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
19115821

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 19115820 acccccgatgcttttctccatttcgtccatcctgcttgaatgcgatgattcacatccct
19115761

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 19115760 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
19115701

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 19115700 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
19115641

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 19115640 cattccatataacttcgatttggttctgcttaggcgaaaaccatgtgtttctagagctcgt
19115581

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 19115580 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
19115521

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 19115520 tctgcaaaaagcatgcatctcggcgctatctcttg 19115486

Score = 1505 bits (759), Expect = 0.0

Identities = 801/815 (98%)

Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 45241113 aacgccttatcccactaggtgggggtcagctacatggatcaacttccgccataatgttcta
45241054

Query: 1703 tcaagtaccataactttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 45241053 tcaagtaccataacttttctatccaaatcattaagttcagagatcctttttgataacctctctt
45240994

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 45240993 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgatctact
45240934

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 45240933 ctctcactatagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
45240874

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 45240873 tccaccatcttctctacaataggcgctactccaaccctctctctactagcttcgtttcta
45240814

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 45240813 attttatcctgtcaagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45240754

Query: 2003 actttattctcatgttgggtcttgaccgccccaacatttctgttccgtacaaaatcgccggt
2062

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Sbjct: 45240753 actttattctcatgttgggtcttgaccgccccaacattttgttccgtacaaaatcgccggt
45240694

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 45240693 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
45240634

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 45240633 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
45240574

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 45240573 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
45240514

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 45240513 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 45240454

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 45240453 cattccatataactccgatttgcttctgcttaggcgaaaacccatgtgtttctagagctcgt
 45240394

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 45240393 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 45240334

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 45240333 tctgcaaaaagcatgcatctcgacgctatctcttg 45240299

Score = 1497 bits (755), Expect = 0.0
 Identities = 800/815 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 23192443 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 23192502

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 23192503 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 23192562

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 23192563 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 23192622

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

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Sbjct: 23192623 cccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
23192682

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 23192683 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
23192742

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 23192743 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
23192802

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 23192803 actttagtctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
23192862

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 23192863 cttaccgcagtcgaataaaaactttccctttagcttgatcggtacctttgcatcacataac
23192922

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 23192923 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
23192982

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 23192983 tcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
23193042

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 23193043 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
23193102

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 23193103 cattccatataactcctatatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
23193162

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 23193163 ctccaaatttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
23193222

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 23193223 tctgcaaaaagcatgcatctcggcgctatctcttg 23193257

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 19697935 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
19697876

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 19697875 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
19697816

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 19697815 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
19697756

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 19697755 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
19697696

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 19697695 tccaccatcttctataacaataggcgctactccaaccctcttctctaatagttcgtttcta
19697636

Query: 1943 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 19697635 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
19697576

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 19697575 acttttagtctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
19697516

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 19697515 cttaccgcagtcgataaaaacgttcccttagcttgatcggtacctttgcatcacataac
19697456

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 19697455 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
19697396

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 19697395 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
19697336

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 19697335 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
19697276

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 19697275 cattccatatactctgattttcttttgccttaggcgaaagccatgtgtttctagagctcgt
19697216

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 19697215 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
19697156

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 19697155 tctgcaaaaagcatgcatcttggcgctatctcttg 19697121

Score = 1418 bits (715), Expect = 0.0
Identities = 791/815 (97%), Gaps = 1/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 1856308 aacgccttatcctactaggtggggttggctacatggatcaacttccgccataatgttcta
1856367

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
1762
|||||||
Sbjct: 1856368 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
1856427

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 1856428 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1856487

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||||
Sbjct: 1856488 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1856547

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942
|||||||
Sbjct: 1856548 tccaccatcttctctacaataggcgctactccaactctctctctaataagcttcggtttcta
1856607

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 1856608 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1856667

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttcggtacaaaatcgccgggt
2062
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Sbjct: 1856668 acttttagtctcatgttggtctttgaccgcccacattctgttccgtacaaaatcgccggt
 1856727

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 1856728 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 1856787

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 1856788 acccccgatgcttttctccatttcatccatcctgcttgaatgtgatgattcacatccct
 1856847

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 1856848 tcaatttctccatcatcctatattacagacccaagatatttaaacc-tgtgacttgaggg
 1856906

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 2302

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 Sbjct: 1856907 ataatatggtctcctattttcacctctgagttagataccctcctacttttggtgaactta
 1856966

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 1856967 cattccatatactcctattttgcttctgcttaggcgaaaaccatgtgtttctagaactcgt
 1857026

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

| |||||
 Sbjct: 1857027 tttcaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 1857086

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 1857087 tctgcaaatagcatgcatctcgacgctatctcttg 1857121

Score = 1392 bits (702), Expect = 0.0
 Identities = 726/734 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 13125670 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
13125611

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 13125610 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
13125551

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 13125550 atagtctttttgggtcttcctctgcctcgaattgtttgccttcgctccatctagtctact
13125491

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 13125490 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
13125431

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 13125430 tccaccatcttttctacaataggcgctactccaaccctctctctaatagttcgtttcta
13125371

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 13125370 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
13125311

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 13125310 actttattctcatgttggtctttgaccgccaacattctgttcggtacaaaatcgccggt
13125251

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 13125250 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
13125191

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 13125190 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
13125131

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 13125130 tcaatttctccatcatcctgtattacagaccaagatatattaaaccttgtgacttgaggg
13125071

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 13125070 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
13125011

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 13125010 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
13124951

Query: 2363 ctccaagtttccaa 2376

|||||
Sbjct: 13124950 ctccaagtttccaa 13124937

Score = 1346 bits (679), Expect = 0.0
Identities = 695/699 (99%), Gaps = 1/699 (0%)
Strand = Plus / Minus

Query: 1759 tcttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtc
1818

|||||
Sbjct: 24851829 tcttatagtctttttgggtcttcctctgccttgaattgtttgtcttctctccatctggtc
24851770

Query: 1819 tactctcctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtct
1878

|||||
Sbjct: 24851769 tactctcctcactatagagtctaccggtcttctctctacatgccccaaaccac-taagtct
24851711

Query: 1879 attttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggt
1938

|||||

Sbjct: 24851710 attttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggt
24851651

Query: 1939 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
1998

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Sbjct: 24851650 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
24851591

Query: 1999 acctactttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgc
2058

|||||
Sbjct: 24851590 acctactttattctcatggttggtccttgactgccaacattctgttccgtacaaaatcgc
24851531

Query: 2059 cgggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcaca
2118

|||||
Sbjct: 24851530 cgggtcttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcaca
24851471

Query: 2119 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
2178

|||||
Sbjct: 24851470 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
24851411

Query: 2179 cccttcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttg
2238

|||||
Sbjct: 24851410 cccttcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttg
24851351

Query: 2239 agggataaatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaa
2298

|||||
Sbjct: 24851350 agggataaatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaa
24851291

Query: 2299 cttacattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
2358

|||||
Sbjct: 24851290 cttacattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
24851231

Query: 2359 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
2418

|||||

Sbjct: 24851230 tcgtctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactat
24851171

Query: 2419 gtcacatctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 24851170 gtcacatctgcaaaaagcatgcatctcggcgctatctcttg 24851132

Score = 1190 bits (600), Expect = 0.0
Identities = 618/624 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 8716392 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
8716333

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 8716332 tcaagtaccataacttctatccaaaccattaatttcgagatccttttcgataacctctctt
8716273

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822

|||||
Sbjct: 8716272 atagtctttttgagtctttctctgcctcgaattggttgcttctctccatctgggtctact
8716213

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 8716212 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
8716153

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcggtttcta
1942

|||||
Sbjct: 8716152 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcggtttcta
8716093

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 8716092 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
8716033

Query: 2003 actttattctcatggttggtccttgaccgcccacattctgttcggtacaaaatcgccggt
2062
|||||
Sbjct: 8716032 actttattctcatggttggtccttgaccgcccacattctgttcggtacaaaatcgccggt
8715973

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 8715972 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
8715913

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatccct
2182
|| |||||
Sbjct: 8715912 actcccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatccct
8715853

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242
|||||
Sbjct: 8715852 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
8715793

Query: 2243 ataatatggtctcctattttcacc 2266
|||||
Sbjct: 8715792 ataatacagtctcctattttcacc 8715769

Score = 1134 bits (572), Expect = 0.0
Identities = 654/676 (96%), Gaps = 4/676 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 8969442 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
8969383

Query: 1703 tcaagtaccatacttctatccaaaccattaatctcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 8969382 tcaagtaccatacttctatccaaatcattaatctcgagatcctttttgataacctctctt
8969323

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 8969322 atagtcttttgggtcttcctctgcttcgaattggttgctctctctccatctgggttgct
8969263

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 8969262 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
8969203

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 8969202 tccaccatcttctctacaataggcgctacttcaaccctctctctaatagtctcgtttcta
8969143

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002

|||||
Sbjct: 8969142 attttatcctgtcgagtcttaccacacatccaccggaacatcctcatctccgatacacct
8969083

Query: 2003 actttattctcatgttggtcttgaccggccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 8969082 actttattctcatgttggtcttgaccggccaacattctgttccgtacaaaatcgccggt
8969023

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 8969022 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
8968963

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatcccct
2182

| |||||
Sbjct: 8968962 atcccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatgcct
8968903

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 8968902 tcaatttccccatcatcctatattaccgaaccaagatatttaaaccgtgtgacttaaggg
8968843

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||

Sbjct: 8968842 ataatatggtctccta-tttcacctctgagtta-aaaccctac-tctattgtcgaactta
8968786

Query: 2303 cattccatataactccg 2318
|||||||
Sbjct: 8968785 -attccatataactccg 8968771

Score = 1063 bits (536), Expect = 0.0
Identities = 551/556 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 25752551 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
25752610

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 25752611 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
25752670

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 25752671 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
25752730

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882
|||||||
Sbjct: 25752731 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
25752790

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||||
Sbjct: 25752791 tccaccatcttctctacaataggcgctacgccaaaccctctctctaataagcttcgtttcta
25752850

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 25752851 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25752910

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 25752911 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgtcggt
25752970

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 25752971 cttaccgcagtcgataaaaactttctcttagcttgatcggtacctttgcatcacataac
25753030

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182
|||||
Sbjct: 25753031 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
25753090

Query: 2183 tcaatttccccatcat 2198
|||||
Sbjct: 25753091 tcaatttccccatcat 25753106

Score = 1025 bits (517), Expect = 0.0
Identities = 529/533 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 17174821 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17174762

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 17174761 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
17174702

Query: 1763 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 17174701 atagtctttttgggtcttccctctgcctcgaattgtttgccttctctccatctgggtctact
17174642

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 17174641 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagttctattt
17174582

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 17174581 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
17174522

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 17174521 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
17174462

Query: 2003 actttattctcatggtgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 17174461 actttattctcatggtgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
17174402

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 17174401 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
17174342

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcac 2175

|||||
Sbjct: 17174341 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcac
17174289

Score = 1025 bits (517), Expect = 0.0
Identities = 526/529 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 46449599 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
46449658

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 46449659 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
46449718

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggctact
1822

|||||
Sbjct: 46449719 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggctact
46449778

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 46449779 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
46449838

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 46449839 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
46449898

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 46449899 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
46449958

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

||| |||||
Sbjct: 46449959 actctattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccggt
46450018

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 46450019 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
46450078

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgat 2171

|||||
Sbjct: 46450079 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgat 46450127

Score = 866 bits (437), Expect = 0.0
Identities = 440/441 (99%)
Strand = Plus / Minus

Query: 1731 taatttcgagatcctttttgataacctctcttatagtctttttgggtcttcctctgcctc
1790

|||||
Sbjct: 28897382 taatttcgagatcctttttgataacctctcttatagtctttttgggtcttcctctgcctc
28897323

Query: 1791 gaattgtttgtcttctctccatctggtctactctcctcactacagagtctaccggtcttc
1850

|||||
Sbjct: 28897322 gaattgtttgtcttctctccatctggtctactctcctcactacagagtctaccggtcttc
28897263

Query: 1851 tctctacatgccccaaaccacctaagtctattttccaccatcttctctacaataggcgcta
1910

|||||
Sbjct: 28897262 tctctacatgccccaaatcacctaagtctattttccaccatcttctctacaataggcgcta
28897203

Query: 1911 ctccaaccctctctctaatagtcttcgtttctaattttatcctgtcgagtcttaccacaca
1970

|||||
Sbjct: 28897202 ctccaaccctctctctaatagtcttcgtttctaattttatcctgtcgagtcttaccacaca
28897143

Query: 1971 tccaccgcaacatcctcatctccgctacacctactttattctcatggtggctcttgaccg
2030

|||||
Sbjct: 28897142 tccaccgcaacatcctcatctccgctacacctactttattctcatggtggctcttgaccg
28897083

Query: 2031 cccaacattctgttccgtacaaaatcgccgggtcttaccgcagtcgataaaaactttccct
2090

|||||
Sbjct: 28897082 cccaacattctgttccgtacaaaatcgccgggtcttaccgcagtcgataaaaactttccct
28897023

Query: 2091 ttagcttgatcggtacctttgcatcacataacacccccgatgcttttctccatttcatcc
2150

|||||
Sbjct: 28897022 ttagcttgatcggtacctttgcatcacataacacccccgatgcttttctccatttcatcc
28896963

Query: 2151 atcctgcttgaatgcgatgat 2171

|||||
Sbjct: 28896962 atcctgcttgaatgcgatgat 28896942

Score = 858 bits (433), Expect = 0.0
Identities = 461/469 (98%), Gaps = 1/469 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 6950239 aacgccttatcccactaggtggggctcggctacatggatcaacttccgtcataatgttcta
6950180

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 6950179 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgaaaacatctctt
6950120

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgttt-gtcttctctccatctgggtctac
1821

|||||
Sbjct: 6950119 atagtctttttgggtcttcctctgtctcgaattatttgtcttctctccatctgggtctac
6950060

Query: 1822 tctcctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcatt
1881

|||||
Sbjct: 6950059 tctcctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcatt
6950000

Query: 1882 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttct
1941

|||||
Sbjct: 6949999 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttct
6949940

Query: 1942 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
2001

|||||
Sbjct: 6949939 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
6949880

Query: 2002 tactttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccgg
2061

|||||
Sbjct: 6949879 tactttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccgg
6949820

Query: 2062 tcttaccgcagtcgataaaaactttcccttttagcttgatcggtaccttt 2110

|||||
Sbjct: 6949819 tcttaccgcagtcgataaaaactttcccttttagcttgatcggtaccttt 6949771

Score = 833 bits (420), Expect = 0.0
Identities = 420/420 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 31724450 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
31724509

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 31724510 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
31724569

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 31724570 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
31724629

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 31724630 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
31724689

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 31724690 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
31724749

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 31724750 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
31724809

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 31724810 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
31724869

Score = 751 bits (379), Expect = 0.0
Identities = 388/391 (99%)
Strand = Plus / Minus

Query: 1644 acgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctat
1703
Sbjct: 13316404 acgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctat
13316345

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
1763
Sbjct: 13316344 caagtaccatacttctatccaaatcattaagttcagagatcctttttgataacctctctta
13316285

Query: 1764 tagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
1823
Sbjct: 13316284 tagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
13316225

Query: 1824 tcctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatttt
1883
Sbjct: 13316224 tcctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatttt
13316165

Query: 1884 ccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttctaa
1943
Sbjct: 13316164 ccaccatcttctctacaataggcgctactccaactctctctctaatagttcgtttctaa
13316105

Query: 1944 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
2003
Sbjct: 13316104 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
13316045

Query: 2004 ctttattctcatgttggtctttgaccgcca 2034
Sbjct: 13316044 ctttattctcatgttggtctttgaccgcca 13316014

Score = 737 bits (372), Expect = 0.0
 Identities = 390/396 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 24487396 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
 24487337

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||||||||||| ||||||| |||| | |||||||||||||||||||||||||||||
 Sbjct: 24487336 tcaagtaccatactattatccaaatcattcagttcgagatcctttttgataacctctctt
 24487277

Query: 1763 atagtctttttgggtcttctctgcctcgaattggttgcttctctccatctgggtctact
 1822
 |||||||||||||||||||||||||||||||||||||||||| |||||||||||||||||
 Sbjct: 24487276 atagtctttttgggtcttctctgcctcgaattggttgcttctctccatctgggtctact
 24487217

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
 1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 24487216 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
 24487157

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 24487156 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 24487097

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 24487096 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 24487037

Query: 2003 actttattctcatggtgggtcttgaccgccaacat 2038
 ||||||||||||||||||||||||||||||||||||
 Sbjct: 24487036 actttattctcatggtgggtcttgaccgccaacat 24487001

Score = 549 bits (277), Expect = e-153
 Identities = 295/301 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 18925376 aacgccttatcccactaggtgggggtcggctacatggatcaacttccggtcataatgttcta
 18925435

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
 1762

|||||
 Sbjct: 18925436 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataaacctctctt
 18925495

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
 1822

|||||
 Sbjct: 18925496 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
 18925555

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctatatt
 1882

|||||
 Sbjct: 18925556 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctatatt
 18925615

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
 1942

|||||
 Sbjct: 18925616 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
 18925675

Query: 1943 a 1943
 |
 Sbjct: 18925676 a 18925676

Score = 510 bits (257), Expect = e-141
 Identities = 279/285 (97%), Gaps = 1/285 (0%)
 Strand = Plus / Plus

Query: 1645 cgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatc
 1704

|||||
 Sbjct: 46884891 cgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatc
 46884950

Query: 1705 aagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttat
1764

Sbjct: 46884951 aagtaccatacttctatccaaatcattaagttcgagatcatttttgataacctctcttat
46885010

Query: 1765 agtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactct
1824

Sbjct: 46885011 agtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctactct
46885070

Query: 1825 cctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagttctattttc
1884

Sbjct: 46885071 cctcactacagagtctaccgggtcttctctctacatgcccaaacca-ctaagttctattttc
46885129

Query: 1885 caccatcttctctacaataggcgctactccaaccctctctcta 1929

Sbjct: 46885130 caccatcttctctacaatagacgctactccaaccctctctcta 46885174

Score = 438 bits (221), Expect = e-120
Identities = 239/245 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggtacatggatcaacttccgccataatgttcta
1702

Sbjct: 49325626 aacgccttatcccactaggtgggggtcgactacatggatcaacttccgccataatgttcta
49325685

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 49325686 tcaagtaccatacttctatccaaatcattaagttcgagatcatttttgataacctctctt
49325745

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

Sbjct: 49325746 atagtctttttgggtcttcctctgcctcaaattgtttgccttctctccatctgggtctact
49325805

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||

Sbjct: 49325806 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
49325865

Query: 1883 tccac 1887
|||||
Sbjct: 49325866 tccac 49325870

Score = 414 bits (209), Expect = e-112
Identities = 212/213 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 22286425 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
22286484

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762
|||||
Sbjct: 22286485 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataaacctctctt
22286544

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 22286545 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
22286604

Query: 1823 ctctcactacagagtctaccggtcttctctct 1855
|||||
Sbjct: 22286605 ctctcactacagagtctaccggtcttctctct 22286637

Score = 381 bits (192), Expect = e-102
Identities = 210/216 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 467942 aacgccttatcccactaggtggggtcggctacatgaatcaacttccgccataatgttcta
468001

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762
|||||
Sbjct: 468002 tcaagtaccatacttctatccaaatcattaagttcgagatactttttgataaacctctctt
468061

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
|||||
Sbjct: 468062 atagtctttttgggccttcctctgcctcgaattgtttgtcttcttccatctggtctact
468121

Query: 1823 ctctcactacagagtctaccggtcttctctctaca 1858
|||||
Sbjct: 468122 ctctcactacagagtctaccggtcttctctctaca 468157

Score = 311 bits (157), Expect = 1e-81
Identities = 157/157 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 29776551 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
29776610

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762
|||||
Sbjct: 29776611 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
29776670

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgttt 1799
|||||
Sbjct: 29776671 atagtctttttgggtcttcctctgcctcgaattgttt 29776707

Score = 252 bits (127), Expect = 9e-64
Identities = 130/131 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 48603727 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
48603668

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 48603667 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
 48603608

Query: 1763 atagtctttttt 1773

|||||
 Sbjct: 48603607 atagtctttttt 48603597

Score = 226 bits (114), Expect = 5e-56
 Identities = 195/222 (87%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacatag
 5175

|||||
 Sbjct: 14008995 aaaaattaattatcacaaaatttattatgttaaatttacatgtacattaaatatacattaa
 14009054

Query: 5176 aaattttagtggttatattttagtgaaattaattattttataacataattgatgtattagtt
 5235

|||||
 Sbjct: 14009055 aaattttagtggtcatatatagtgacattaattattttgtaacataattaatctattagtt
 14009114

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
 5295

|||||
 Sbjct: 14009115 tagttgggttagagtattgtgttaataatgtgaaaattgtaggttcaattcttatttgaac
 14009174

Query: 5296 cattaattttaaaattaatttgtaaaaatatatttttgaaaaaa 5337

|||||
 Sbjct: 14009175 tattaattttaaaattaatttcgttaaattatatatttttgaaaaaa 14009216

Score = 220 bits (111), Expect = 3e-54
 Identities = 123/127 (96%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||

Sbjct: 10256473 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 10256532

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 10256533 tcaagtaccatacttctatccaaattattaagtctcgagatccttcttgataacctctctt
 10256592

Query: 1763 atagtct 1769

|||||
 Sbjct: 10256593 atagtct 10256599

Score = 210 bits (106), Expect = 3e-51
 Identities = 176/198 (88%), Gaps = 1/198 (0%)
 Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggttaagatcaagtgtagtatctgttcttatcagtttaaat
 1257

|||||
 Sbjct: 1802635 catacctttctcggccttttggttaagatcaagtgtagtatctgttcttatcagtttaaat
 1802694

Query: 1258 atctgatatgtgggtcattggcccatgatattaaatttttttgaaggggtggggcc
 1317

|||||
 Sbjct: 1802695 atctgatacgtgagtcattgggtcacatgatattaaatttttttgaaggaagagcc
 1802754

Query: 1318 tgacatagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgcat
 1377

|||||
 Sbjct: 1802755 catcatagtagcttgcta-ttgggggtttttaagtgtcgcctatttcttgactacagtat
 1802813

Query: 1378 gggcctggcgcaccctac 1395

|||||
 Sbjct: 1802814 aggcctggcgcaccctac 1802831

Score = 210 bits (106), Expect = 3e-51
 Identities = 228/266 (85%), Gaps = 12/266 (4%)
 Strand = Plus / Minus

Query: 4821 tcatagctttgtttagaaaaaagagatttaataattaatagctaagaaatccaaaagt
4880

Query: 4881 ttttctttttattt-----ttattttgttctattcaattctaattttgtcattttt
4931

Query: 4932 t-tcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgattatt
4990

```
Query: 4991      attttactttgatacattagccaata 5016
              || ||||| || ||||| || |||||
Sbjct: 11638278 gcttcactttgacacattagccaata 11638253
```

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacatag
5175

Query: 5176 aaat t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a a t t g a t g t a t t a g t t
5235

Query: 5236 cagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Sbjct: 7796488 caattggttagaacattgtgttaataatgtgaaagtcatatgtttgattcatgtttggat
7796429

Query: 5296 cattaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAAA 5340
|||||
Sbjct: 7796428 cattaatttttaaataatttcgtaaaatatatTTTTGAAAAAAAAA 7796384

Score = 200 bits (101), Expect = 3e-48
Identities = 200/233 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||
Sbjct: 11077785 aaaattaattgtcacaaaatttattatctaaatttgcattgcgcatttaatacattaga
11077844

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTtataacataattgatgtattagttc
5236
|||||
Sbjct: 11077845 aatttttagtggttacatataacgacattaattatTTTtataataattgacctattaactt
11077904

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcAAAagttcaattcttacttggatc
5296
|||||
Sbjct: 11077905 agttggttagagtgctatgtaaatcatgcgaaagttacatgttcgatttctacttgggtc
11077964

Query: 5297 attaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAAAattataaaaa 5349
|||||
Sbjct: 11077965 attaatttttaaattaatttcataaaacatatTTTTGAAAAAAAAAattataaaaa
11078017

Score = 194 bits (98), Expect = 2e-46
Identities = 259/312 (83%), Gaps = 3/312 (0%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737
|||||
Sbjct: 26568611 atgcgacacatgaaacatcgttttggttgacctgattctcggatatccattttggtgtgg
26568552

Query: 6738 atacgagaggagacatgacaacctttagaattttcttttcatttttggggtggggcaaatt
6797
 |||| |||| ||| | ||| ||| |||| | |||||||| ||| | |||||||| |||||
Sbjct: 26568551 atacaagagaagataggacgacccttagtacttcttttcttttctaggttgggtcaaattc
26568492

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857
 |||||| |||||||||||| |||| | ||||| |||||||||| |||| |||| | ||
Sbjct: 26568491 attggctcgtgacatggtggccaataggcttcggtgcacaatttccaaacaatcctctg
26568432

Query: 6858 tacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
6917
 || ||||| ||||| ||| || |||||||||||||||||||||||| | |||||||||
Sbjct: 26568431 tataatggtggagatattttccaaggtatacacaagatgtatgtagtttttgtactcatga
26568372

Query: 6918 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
6974
 ||||||||||||| | || |||||||||||||||| | ||||||| ||| || |||||
Sbjct: 26568371 tgagcatgcttacaagcaataacaacatgagaatatggcatgtgcaatttctggaatttg
26568312

Query: 6975 tcacagtcacac 6986
 |||||||||||||
Sbjct: 26568311 tcacagtcacac 26568300

Score = 184 bits (93), Expect = 2e-43
Identities = 271/328 (82%), Gaps = 3/328 (0%)
Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490
 |||||| |||||| |||||||||||| |||||||||||||||||||||||| ||| | |||||
Sbjct: 19072060 atacaataatgaa-aacacacatgatgactacaaatcattaaataataaaataaggatca
19072118

Query: 7491 aataatttggggaggggggt--cttcaaaacttgattcaagggtcattgtatcatcgagggt
7548
 |||||| |||||| |||||| |||||||||||| |||||||||||| ||||| |||||||||||
Sbjct: 19072119 aataaattgggaggggggtttcttcaaaactcgattcaagggtgattgtttcatcgagggt
19072178

Query: 7549 attcaccctaaaccctccaaattcaaagagcttgcagaaactgggtgggtggttgtgcatatg
7608
 ||||| |||||| | |||||||||||||||||| ||||| | ||||||| |||||| |||

Sbjct: 19072179 attcattcaaacctttcaaattcaaagagcttgtagaaattagtgggtggatgtgcacatg
 19072238

Query: 7609 tttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtt
 7668

|||||
 Sbjct: 19072239 tttgtgtgggtgtgtctgcagtggtaatatataattgcaagcatgtgagcttagagattt
 19072298

Query: 7669 tcccaaataatagaaaacatagtaattatttcctcatcatcttgcagcatacatgccctgt
 7728

|||||
 Sbjct: 19072299 gctcgaacatagaaaatatagtcattacatcgatcatcatcatgcaacatgcatgccctgt
 19072358

Query: 7729 actgaaaacaatcaccaacaaatgatac 7756
 |||||
 Sbjct: 19072359 actagccataatcaccaacaaatgatac 19072386

Score = 178 bits (90), Expect = 1e-41
 Identities = 184/214 (85%), Gaps = 1/214 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 23238686 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattaga
 23238745

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 23238746 aatttttagtggttatgtataacaacattatttattttataacataattgggtcaattagctt
 23238805

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296

|||||
 Sbjct: 23238806 cgttgggttagagtgtgtgttaataacttgaaagtcataagtttgattcttgctt-gacc
 23238864

Query: 5297 attaatTTTTaaattaatttGTaaaatatattttt 5330

|||||
 Sbjct: 23238865 attaatTTTTaaattaatttGTaacacatatattttt 23238898

Score = 174 bits (88), Expect = 2e-40
Identities = 94/96 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 24851945 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
24851886

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcg 1738
|||||
Sbjct: 24851885 tcaagtaccatacttctatccaaatcattaagttcg 24851850

Score = 174 bits (88), Expect = 2e-40
Identities = 94/96 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 46397634 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
46397575

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcg 1738
|||||
Sbjct: 46397574 tcaagtaccatacttctatccaaatcattaagttcg 46397539

Score = 172 bits (87), Expect = 7e-40
Identities = 175/203 (86%), Gaps = 1/203 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 27265539 aaaattaattgttacaaaatttattatctaaatttgcacataaatata-attaga
27265597

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||
Sbjct: 27265598 aatcttagtggttacatatatcgacattaattattttataacataattgacctattagttc
27265657

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
||||| ||||||| || ||||||||| | ||||||| | | ||| ||||| | ||||| |
Sbjct: 27265658 agttgattagagcgttgtgttaataacgcgaaagttagatgtttgattcctgcatgggcc
27265717

Query: 5297 attaatTTTaaattaatttgtaa 5319
||||| ||||||| |||||
Sbjct: 27265718 attaatTTTaaattaattcgtaa 27265740

Score = 172 bits (87), Expect = 7e-40
Identities = 281/344 (81%), Gaps = 5/344 (1%)
Strand = Plus / Minus

Query: 6899 gtagttcctatactcatgggtgagcatgcttataa---acaacaacatgagaacaaaacat
6955
||||||| | ||||||| ||||| ||||||| || || ||||||| ||||||| |||||
Sbjct: 27899992 gtagttcctgtactcatagtgaacatgcttacaagcaacaacaacatgagaacaagacat
27899933

Query: 6956 gtgcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaatt
7015
|| || ||||||| || ||||| ||||||| ||||||| ||||||| ||||| ||||| |||||||
Sbjct: 27899932 gtacaatttttggaaacttgccacagtcacaccacctttcatccagcctgactgtgaaatt
27899873

Query: 7016 tctcactagttgaatctctctctccagttaattgtctcctagactaagaattgtatgtcg
7075
|| || || ||||| ||||||| ||||| ||||||| ||||| ||||||| |||||
Sbjct: 27899872 tccaacgagctgaa--cctctctcgggtttattgtctcctaaatcaagaattgtgtgttg
27899815

Query: 7076 cattaatcgaactcaagaacaatgtgagagtttgccctttttctgtatgtctttcatagcc
7135
||||| || ||||||| ||||||| ||||||| ||||||| ||||| ||||| ||||| |||||
Sbjct: 27899814 cattgattgaactcaagaataatgtgagtggttctcttctatgtttatcttcgatgacc
27899755

Query: 7136 ttgtttaatacttttgtataaacttcaccaaagtgaatcactcttgcgacttctctcccc
7195
||||| ||||||| ||||||| || ||||| ||||| ||||| ||||||| ||||||| |||||
Sbjct: 27899754 ttgtttaatacttgcgataaacttggttagatataaccattgttgcgacttctctcccc
27899695

Query: 7196 ctttggttgaacaatgcattacacctagtaggttgattttac 7239
||||| ||||||| ||||||| || ||||| ||||||| |||||

Sbjct: 27899694 cttttgttgaacaatgcattacactttatatatgttgattttac 27899651

Score = 170 bits (86), Expect = 3e-39
Identities = 106/110 (96%), Gaps = 2/110 (1%)
Strand = Plus / Minus

Query: 2350 ttctagagctcgtctccaagtttccaacctctcattcaactcctccctcgactctccaag
2409

|||||
Sbjct: 8968203 ttctagagctcgtctccaagtttccaacctctcaatcgactcctccctcgactctccaag
8968144

Query: 2410 gaggactatgtcatctgca-aaaagc-atgcatctcggcgctatctcttg 2457

|||||
Sbjct: 8968143 gaggactatgtcatctgcaaaaaagcaatgcatctcggcgctatctcttg 8968094

Score = 170 bits (86), Expect = 3e-39
Identities = 198/234 (84%), Gaps = 1/234 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 11077689 aaaattaattatcacaaaatttattatctaaatttacatgcgcattaaatatattaga
11077630

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 11077629 aattttaatgttacatatagcgacattaattattttataacataattagcctattagctc
11077570

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaa-ttcttacttggat
5295

||||
Sbjct: 11077569 agttagttagagtgtcatgctaataacgcgaaagtcataggttaatttttttttttggt
11077510

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaa 5349

|||||
Sbjct: 11077509 cattaatttttaaattaatttcttaaaacatatatttttgaaaaaaaaattataaaaa
11077456

Score = 170 bits (86), Expect = 3e-39
Identities = 182/214 (85%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaataacattag
5175
 |||||||||||| | |||||||||||||||||||| | | ||||||||||||
Sbjct: 27265339 aaaaattaattgtcataaaaatttattatctaaatttgcatacgtattaaataacattat
27265280

Query: 5176 aaat tttagtggttatatttagtgaaattaattttataacataattgatgtattagtt
5235
 |||||||||||||||| | |||||||||||| | ||||| |||||||| | ||||| |
Sbjct: 27265279 aaat tttagtggttatatatagtgaaattaatggttttatagcataattgacctattagct
27265220

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295
 |||||||| | | |||||||| | ||||| | | ||| ||||| | |||||||
Sbjct: 27265219 ttattgggttagaatgctgtattaataataaaaagtgacagggtttaattcctgcttggat
27265160

Query: 5296 cattaat ttttaaattaatttgtaaaatatatttt 5329
 |||||||||||||||||| |||||||||||||
Sbjct: 27265159 cattaat ttttaaattaatttataaaaatatatttt 27265126

Score = 169 bits (85), Expect = 1e-38
Identities = 279/343 (81%), Gaps = 3/343 (0%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
6737
 |||||||||||||||| | |||| | || | ||||| |||||||||||| | |||||
Sbjct: 28667883 atgcgacacatggaacatgggttttgattgacctgattctcggatatccatttcgggtgtgg
28667824

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797
 ||||| | ||||||||| || | | |||||||||||| | | | || | |||||
Sbjct: 28667823 atacgaaaagagacatgacgacctttgaatttcttttctgtctaggtcatagcaaatt
28667764

Query: 6798 cttggcttgtgacatgggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857
 ||||| ||||| | |||||||| | |||||| | || | ||||| | || | ||| | |||

Sbjct: 24401339 aaattaattatcaaaaaatttattatgtaaatttacatgtgcattaaacatacactagaa
24401398

Sbjct: 27895487 taagcatgcttacaagcaacaacaacatgagaacaaggcttgtagaatttttgggaacttg
27895546

Query: 6975 tcacagtcacactacctttcatctagcttgaccatgaaatttc 7017
|| ||||| ||||| || || | |||||
Sbjct: 27895547 ccaaagtcacaccaccttttatccagtctaaccatgaaatttc 27895589

Score = 151 bits (76), Expect = 2e-33
Identities = 142/164 (86%)
Strand = Plus / Minus

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
5237
||||| ||||| || || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2510955 attttagtggttatatatagcgacattaattattttataacgtaattgggtctattagctca
2510896

Query: 5238 gttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatca
5297
||||| || || ||||| ||||| ||||| || || ||||| |||||
Sbjct: 2510895 attggtagagtgtcgtgttaataatgcaaagtcacagggttgattcctacttgggtca
2510836

Query: 5298 ttaattttaaatattttgtaaaatatatttttgaaaaaaaaat 5341
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2510835 ttaattttagattaatttagtaaaacatatatttttgaaaaaaaaat 2510792

Score = 143 bits (72), Expect = 6e-31
Identities = 111/124 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2511535 aaaattaattgtcacaaaatttattatctaaatttacatgcatgaaataacattaaa
2511594

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||| ||||| || || || || ||||| ||||| ||||| ||||| |||||
Sbjct: 2511595 aattttaattgtacatatagcgacattaattattttataacataaattatttagttt
2511654

Query: 5237 agtt 5240

||||
Sbjct: 2511655 agtt 2511658

Score = 139 bits (70), Expect = 9e-30
Identities = 183/218 (83%), Gaps = 2/218 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatagga
5176

|||||
Sbjct: 9484910 aaaattaattgtcataaaaatttattatctaaatttacctgtgcattaaatatacatataa
9484851

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 9484850 aatttt-attggttatatatagcaacattaattattttataacataattgacttattagctc
9484792

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 9484791 agttgggttagagcgatgtactaataacgtaaaagtcacatgtttaatttttgcattagatc
9484732

Query: 5297 attt-atttttaaattaatttgtaaaatatatttttgaa 5333

|||||
Sbjct: 9484731 atttatttttaaattaatttcttaaaaaatatatttttgaa 9484694

Score = 139 bits (70), Expect = 9e-30
Identities = 162/190 (85%), Gaps = 2/190 (1%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatagga
5175

|||||
Sbjct: 44927930 aaaaattaattatcacaaaatttattatgtaaatttacctg-cattaaatatacatagga
44927988

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

|||||
Sbjct: 44927989 aaatttttagtggttatatatagcgacattaattattttataacataattgatctattaatt
44928048

Sbjct: 16272301 agttagtttagagtgttggtgctaataacctgaaagttatatgttcgattcttgcttgggat
16272242

Query: 5297 attaatTTTaaattaatttGTaaaatatatTTTtgaaaaaaa 5339
 |||||
Sbjct: 16272241 attaatTTTaaattaatttGTcacaTatatatTTTtcaaaaaaaa 16272199

Score = 133 bits (67), Expect = 6e-28
Identities = 119/135 (88%), Gaps = 1/135 (0%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcTgcacaataaatatacattag
5175
 |||||
Sbjct: 24560753 aaaaattaattattacaaaatttattatGTaaatttacatgtgcattaaatatacattag
24560812

Query: 5176 aaatTTTtagtgTtatatTTtagtgaaattaatta-tTTTataacataattgatgtattagt
5234
 |||||
Sbjct: 24560813 aaatTTTtagtgTtatatatagaaacattaattatTTTataacataattattctattagc
24560872

Query: 5235 tcagttggTtagagc 5249
 |||
Sbjct: 24560873 tcaattggTtagagc 24560887

Score = 131 bits (66), Expect = 2e-27
Identities = 132/154 (85%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcTgcacaataaatatacattag
5175
 |||||
Sbjct: 8415777 aaaaattaattaccataaaaatttattatGTaaatttacatgtgcattaaatatacattag
8415836

Query: 5176 aaatTTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235
 |||||
Sbjct: 8415837 aaatTTTtagtgTtatataaacgacattaattatTTTataacataattgatctattaact
8415896

Query: 5236 cagttggTtagagcattatgttaataatgtgaaa 5269

Query: 6576 gaacaaaatatatttaaatttgaaataatacaacaaaa 6611

|||||
 Sbjct: 19068694 gaacaaaatattttaaaatttgaaacaatacaacaaaa 19068729

Score = 125 bits (63), Expect = 1e-25
 Identities = 141/167 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaaatttattatctaaatttgcacataaatatacattaga
 5176

|||||
 Sbjct: 6741453 aaaattaattgtcataaaatttattatttaaatttacatgcataattaaatatacattaaa
 6741512

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 6741513 atttttactggttatataataacattatttattttataacataaattaacttattagctc
 6741572

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaat 5283

|||||
 Sbjct: 6741573 agttggtagagtctcatgctaatactatgaaattcacaagttcaat 6741619

Score = 123 bits (62), Expect = 5e-25
 Identities = 116/134 (86%)
 Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaaatttattatctaaatttgcacataaatatacattagaa
 5177

|||||
 Sbjct: 11078581 aaattaattgtcacaaaacttattattttaaaatttacatgcgcattaaatatacattagaa
 11078640

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagttca
 5237

|||||
 Sbjct: 11078641 attttactattatataataatattattttattttataacataattgacctattagctca
 11078700

Query: 5238 gttggtagagcat 5251

|||||
 Sbjct: 11078701 gttgatcagagcat 11078714

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaaatatacattaga
5176
|||||

Sbjct: 28930501 aaaattaattgtcacaaaatttattattttaatttacatgcgcattaaatatacatataaa
28930560

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 28930561 aatttttagtggttatatgtaaaaacattattttattttataatgtaattgggttcattagctc
28930620

Query: 5237 agttgggttagagc 5249

|||||
Sbjct: 28930621 agttgggttagagc 28930633

Score = 119 bits (60), Expect = 9e-24
Identities = 246/305 (80%), Gaps = 6/305 (1%)
Strand = Plus / Plus

Query: 6698 ttttggtttacctgattcttggatatccattttggtgtgtatacgagaggagacatgaca
6757

|||||
Sbjct: 11740119 ttttggttgacctgggttctcaaatatctatttttagtatggatacgagaggagacaagatg
11740178

Query: 6758 acctttagaatttcttttcatTTTTGGGTGGGGCAAATtcttggttgtgacatggtga
6817

|||
Sbjct: 11740179 acccttagaatttcttttcttgttgggtcgagacaaatcattggctcgtaacatagtgg
11740238

Query: 6818 ccaacatgc--ttcattgcacaatttcccaagtaatcatttgtacatgttatagatactt
6875

||||
Sbjct: 11740239 ccaatatacacttcattgcgcaattcttcaac-aatccttgtatatgttagacatactt
11740297

Query: 6876 ttcagcgtatacacaagatgtatgtagttcctataactcatgggtgagcatgcttata---a
6932

||
Sbjct: 11740298 tccaatgtatacacagaatgtatgtagttcctataactcatgatgagcttgcttacaagta
11740357

Query: 6933 acaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctt
6992

|||||
Sbjct: 11740358 gcaacaacatgagaataagacatgtacaatttctggaatttgtcatagccacaccacctt
11740417

Score = 117 bits (59), Expect = 3e-23
 Identities = 103/115 (89%), Gaps = 2/115 (1%)
 Strand = Plus / Minus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataatctttttatc
 4816
 |||||
 Sbjct: 1975988 taactgttaatctttttattggtactataagtaacaattaataagtaataacttttcac
 1975929

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaa 4871
 |||||
 Sbjct: 1975928 aatatcataactttgtttag-aaaaaagagatttaatagttaattgttaaagaaa
 1975875

Score = 117 bits (59), Expect = 3e-23
 Identities = 152/183 (83%)
 Strand = Plus / Minus

Query: 5148 atttgcattgcacaataaatatacattagaaatcttagtggtatatttagtgaaattaatt
 5207
 |||||
 Sbjct: 21871492 atttacctgcgcattaaatatacattagaaatcttagtggtatgtataacaatattattt
 21871433

Query: 5208 attttataacataattgatgtattagttcagttgggttagagcattatgttaataatgtga
 5267
 |||||
 Sbjct: 21871432 attttataaagtaattgggttcattagctcaattgggttagagcattatgctaataacctga
 21871373

Query: 5268 aagtcaaaagttcaattcttacttggatcattaatcttaataatttgtaaaatatatt
 5327
 |||||
 Sbjct: 21871372 aagccacaggtttgagtccttgcttgaccattatcttaataatttggtcacaaatatt
 21871313

Query: 5328 ttt 5330
 |||
 Sbjct: 21871312 ttt 21871310

Score = 117 bits (59), Expect = 3e-23

Identities = 124/144 (86%), Gaps = 5/144 (3%)
 Strand = Plus / Plus

Query: 6872 acttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata
 6931
 ||||| || ||||||||||||||||||||| | ||||||||| ||||||||| |
 Sbjct: 32469032 actttccaacgtatacacaagatgtatgtagtttatgtactcatggtcagcatgcttaca
 32469091

Query: 6932 ---aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
 6988
 ||||| ||||||||| ||||||| ||| ||||||||| ||||||| |
 Sbjct: 32469092 agcaacaacaatatgagaacaaagcatgtgca--gtttggaatttgtcatagtcacacca
 32469149

Query: 6989 cctttcatctagcttgaccatgaa 7012
 ||||||||| ||||| ||||
 Sbjct: 32469150 cctttcatctagcatgaccgtgaa 32469173

Score = 115 bits (58), Expect = 1e-22
 Identities = 97/109 (88%), Gaps = 2/109 (1%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||||||||||||||||||||||| ||||||| ||| || ||||||||||||| |
 Sbjct: 3339529 aaaattaattgttacaaaatttattatttaaatttacatgagcattaaatatacattata
 3339470

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 ||||||||||||| ||| | |||| ||||||||||||||||| |||||
 Sbjct: 3339469 aatttttagtggtata--tagcaatattattttattttataacataattga 3339423

Score = 115 bits (58), Expect = 1e-22
 Identities = 85/94 (90%)
 Strand = Plus / Plus

Query: 6574 tagaacaaaatattttaatttgaaataatacaacaaaaattttaaaatacaaacatatg
 6633
 ||||||||||||||||||||||||| ||||||||| || ||||||||||||| |||||
 Sbjct: 27895121 tagaacaaaatattttaatttgaaacaatacacacaatttttaaaaatacaagaatatg
 27895180

Query: 6634 gcataaaaattaatgttggttgccctgagcctacac 6667

Sbjct: 48850200 ataataatattaattatttataacataattgtttattagttcatttagttaaacgctc
48850141

```
Query: 5117      aaaattaattgttacaaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 19110002 aaaattaattgtcacaaaaattttattatgttaaatttacattgtgcattaaatatatattaga
19109943
```

Query: 5177 aatTTTtagTgTtataTTTtagTgaaattaattatTTTataa 5216
 ||||| || || ||||| ||
Sbjct: 19109942 aatTTTtagTgTtataTataacgacattaattatTTTataa 19109903

Score = 109 bits (55), Expect = 8e-21
Identities = 88/99 (88%)
Strand = Plus / Plus

Query: 6568 aaacaatagaacaaaatatTTaaatttgaaataatacaacaaaatTTTaaaatacaaac
6627
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 19068714 aaacaatacaacaaaatatTTaaatttgaaacaatacaacaaaatgTTTaaaatacaaac
19068773

Query: 6628 aatatggcataaaaattaatgTtgTtgGcctgagcctaca 6666
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 19068774 aatatgaaataaatttaacgTtgTtgGcctgagcctaca 19068812

Score = 109 bits (55), Expect = 8e-21
Identities = 139/167 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgTtacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46602878 aaaattaattatcacaaaatttattatataaaatttacatgcgcattaaatatacattcaa
46602819

Query: 5177 aatTTTtagTgTtataTTTtagTgaaattaattatTTTataacataattgatgtattagTtc
5236
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46602818 aatTTTtagTgtcacatataataacattaattatTTTataacataattgatctattaactc
46602759

Query: 5237 agTtgGttagagcattatgTtaataatgtgaaagTcaaaagTtcaat 5283
 | || ||||| || || ||||| || ||||| || |||||
Sbjct: 46602758 aattgattagaactTTTgtgctaataattTaaagTcacatgTtcaat 46602712

Score = 109 bits (55), Expect = 8e-21
Identities = 112/131 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
 ||||| | ||||| ||||| || | || ||||| |||||
Sbjct: 48546909 aaaattaattttcacaaaatttattatttaaatttacacgtgcattaaatatgtattaga
48546850

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| | || | | ||| || ||||| ||||| |||||
Sbjct: 48546849 aatttttagtggttatataataatattatttaatttataacataattgactcattagttc
48546790

Query: 5237 agttgggttaga 5247
 |||||
Sbjct: 48546789 agttgggttaga 48546779

Score = 107 bits (54), Expect = 3e-20
Identities = 96/110 (87%)
Strand = Plus / Plus

Query: 7509 tcttcaaaacttgattcaagggttcattgtatcatcgaggattcacccaaaccctccaaa
7568
 ||| ||||| ||||| ||||| ||| ||| ||||| ||||| ||||| |||||
Sbjct: 10567005 tctttaaactcgattcaagggttatttgcttcattgaggattcatccaaaccctccaaa
10567064

Query: 7569 ttcaaagagcttgcagaaactgggtgggtggtgcatatgtttatgtggg 7618
 || ||||| | ||| || ||||| ||||| ||||| |||||
Sbjct: 10567065 ttgaaagagatggcaggaattgggtgggtggtgcatatgtttatgtggg 10567114

Score = 105 bits (53), Expect = 1e-19
Identities = 140/169 (82%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 ||||| ||||| ||||| || | | ||| ||||| ||||| |||||
Sbjct: 6741284 taaatatacattaaaaattttactggttatataataacattattttattttataacataa
6741225

Query: 5222 ttgatgtattagttcagttgggttagagcattatggttaataatgtgaaagtcaaaagttca
5281
 || ||||| | ||| || | ||||| ||||| ||||| || ||

```
Query: 5130      acaaaaatttattatctaaatttgcattgcacaataaatatacattagaaatttttagtgtaa
5189            |||
Sbjct: 41821421 acaaaaatttattatgtaaatttacatatacattaaatataaaattagaaatttttagtgtaa
41821362
```

Query: 5190 tatttagtgaaattaattatattttataacataattgatgtattagttcagttggtttagagc
 5249

||||| ||| ||| ||| ||| ||||| ||||| || ||||| ||||| ||||| ||
 Sbjct: 41821361 tatatagagacatt-atttgtttatgacataatgtatttattagctcagttggtttgaat
 41821303

Query: 5250 attatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaa
 5309

|| | ||||| || | | ||| ||||| ||| ||||| ||||| ||||| ||||| ||
 Sbjct: 41821302 gttctattaataaagcaagtgacacaagttcatttcctacttggaccattaatttttaa
 41821243

Query: 5310 taatttgtaaaaatatatatttt 5329

||| | ||||| ||||| ||
 Sbjct: 41821242 taaatcataaaaatatatatttt 41821223

Score = 101 bits (51), Expect = 2e-18
 Identities = 111/131 (84%)
 Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattagaa
 5177

||||||| | | ||||| ||||| ||||| ||| || ||||| ||||| ||
 Sbjct: 7300426 aaattaattatcaaaaaatttattatataaaattacatatgcattaaatatatattagaa
 7300367

Query: 5178 attttagtgttatatttagtgaaattaattatattttataacataattgatgtattagttca
 5237

||||||| ||||| || || ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 7300366 attttagtattatataacgacattaattattatataatataattgatctattagctca
 7300307

Query: 5238 gttggtttagag 5248

||||||| ||
 Sbjct: 7300306 attggtttagag 7300296

Score = 101 bits (51), Expect = 2e-18
 Identities = 94/107 (87%), Gaps = 1/107 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
 Sbjct: 17458344 aaaattaattgttacaaaatttattatgtaaacttatatgtgtattaaatatatacattaga
 17458285

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataatt 5223
 |||||
Sbjct: 17458284 aattttagtggttatatatagcaacattaattatttt-taacataatt 17458239

Score = 101 bits (51), Expect = 2e-18
Identities = 154/187 (82%), Gaps = 1/187 (0%)
Strand = Plus / Minus

Query: 7061 aagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttctgt
7120
 |||||
Sbjct: 28667499 aagaatcgtatgtcgcacatcgatcgaactcaagaacaatgtgagtggtttatctttttctgt
28667440

Query: 7121 atgtctttcatagccttggttaataacttttgtataaacttcaccaaagtgaatcactctt
7180
 |||||
Sbjct: 28667439 gcgtctttgatggccttatttagtacttgcatgtaaacttggccatattgcaaacattgtt
28667380

Query: 7181 gcgacttctctccccctttgggtgaacaatgcattacacctagtatagggtgattttacc
7240
 |
Sbjct: 28667379 gtgacttatctccctcttttggtgaa-aatgcattacaccttagatatgttgattttact
28667321

Query: 7241 aacacac 7247
 |||||
Sbjct: 28667320 aacacac 28667314

Score = 99.6 bits (50), Expect = 8e-18
Identities = 101/118 (85%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177
 |||||
Sbjct: 7123661 aaattaattatcacaaaatttattatgtaaatttacatgtgcactaaatatacattaaaa
7123720

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 |||||

Sbjct: 7123721 attttagtattatacataacgacattaattattttataatataattaatttattagtt
7123778

Score = 99.6 bits (50), Expect = 8e-18
Identities = 94/108 (87%), Gaps = 3/108 (2%)
Strand = Plus / Plus

Query: 6882 gtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata---aacaaca
6938

||||||| ||||||| ||||||| ||||||| || ||||||| | |||||||
Sbjct: 19069049 gtatacacaggatgtatgtagttcctataactcatggagaacatgcttacaagcaacaaca
19069108

Query: 6939 acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacac 6986

||||||| || ||| ||| || ||||||| |||||||
Sbjct: 19069109 acatgagaacaaggcatatgcaatttctggaatttgtcagagtcacac 19069156

Score = 97.6 bits (49), Expect = 3e-17
Identities = 77/85 (90%), Gaps = 1/85 (1%)
Strand = Plus / Minus

Query: 6571 caatagaacaaaatattttaatttgaaataatacaacaaaaattttaaaatacaacaat
6630

||||||| ||||||| ||||||| ||||||| ||| ||||||| ||||||| |||
Sbjct: 28271879 caatagaa-aaaatattttaatttgaaacaatacaataaaaatttttaaaatacaagaat
28271821

Query: 6631 atggcataaaaattaatgttggtggc 6655

||||||| ||| |||||||
Sbjct: 28271820 atggcataaatttaacggttggtggc 28271796

Score = 95.7 bits (48), Expect = 1e-16
Identities = 102/119 (85%), Gaps = 2/119 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176

||||||| ||||||| ||||||| ||| || ||| | ||||||| |||||||
Sbjct: 4630238 aaaattaattattacaaaatttattatataaaactt--atgtgtattaaatatacattaga
4630295

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
 5235

|||||

Sbjct: 4630296 aatTTtagtgTtatataatgatgttaactatTTTtaataataattgatctattagtt
 4630354

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 93/108 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176

|||||

Sbjct: 21871512 aaaattaattgttagaaaatttattatTTTaaatttacatgtgcattaaatatgcattaga
 21871571

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattg 5224

|||||

Sbjct: 21871572 aatTTtagtgTtatgtatagcaacattatTTTatTTTtatagcgtaattg 21871619

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 77/87 (88%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaaattTTtagtgTtatatTTtagtgaaattaattatTTTataacataa
 5221

|||||

Sbjct: 112305 taaatatacattagaaaattTTaatgttatatatattgacattaattatTTTtaataataa
 112246

Query: 5222 ttgatgtattagttcagttgggtagag 5248

|||||

Sbjct: 112245 ttgacatattagttatagttgggtagag 112219

Score = 93.7 bits (47), Expect = 5e-16
 Identities = 92/107 (85%)
 Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattagaa
 5177

|||||

Sbjct: 48507445 aaattaattattacaaaatgtattatgcaaatttacatgtgcattaaatatatacattagaa
 48507504

Query: 5074 ccctctcaagtccttgag 5091

|||||
Sbjct: 11635061 gcctctcaagtccttgag 11635044

Score = 91.7 bits (46), Expect = 2e-15
Identities = 64/70 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 46133365 aaaattaattgtcacaaaatttattatctaaatttacaataacattaaaaatacattaga
46133424

Query: 5177 aatttttagtg 5186
|||||
Sbjct: 46133425 aatttttagtg 46133434

Score = 89.7 bits (45), Expect = 8e-15
Identities = 113/133 (84%), Gaps = 2/133 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 11078463 aaaattaattgtcacaaaatttattatttaa-tttacatgaacattaaatatacatgata
11078405

Query: 5177 aatttttagtggttatatttagtgaaattaattatattttataacataattgatgtattagttc
5236

|||||
Sbjct: 11078404 aattttaa-tgttatataataacaacattatattttttataacataattggcttattagctc
11078346

Query: 5237 agttggtagagc 5249
|||||
Sbjct: 11078345 agttggtagagc 11078333

Score = 89.7 bits (45), Expect = 8e-15
Identities = 90/105 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 13761306 aaaattaattggtcacaaaatatattatttaaatttacatgcgcattaaatatattaga
 13761365

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataa 5221

|||||
 Sbjct: 13761366 aatttttagtggttatgtataacaacattattttattttataacataa 13761410

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 93/109 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 16272840 aaaattagttgtcacaaaatttattatttaaatttacaagtgcattaaatatacattaga
 16272899

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225

|||||
 Sbjct: 16272900 aattgtagtggttatgtatagtaacattattttattttataatgtaattga 16272948

Score = 89.7 bits (45), Expect = 8e-15
 Identities = 124/149 (83%), Gaps = 1/149 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 48507384 aaaattaattggtcataaaaatttattttgtaaatttacatggtt-attaaatatatattaaa
 48507326

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 48507325 aattccagtggttatatatagcgatattaattattttataatataaatttacctattagttt
 48507266

Query: 5237 agttggtagagcattatggttaataatgt 5265

|||||
 Sbjct: 48507265 agtttattagagcggttatgctaataatgt 48507237

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 92/108 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 ||||||||||||||||||||||||||||||||||||| ||| | ||| | ||||||| |||||
 Sbjct: 17464837 aaaattaattggttacaaaatttattatataaaacttatatgtatcttaaataatatattaga
 17464896

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224
 ||||||||||||||||| || | ||||||| ||| |||||||||
 Sbjct: 17464897 aatttttagtggttatatataacaacattaattcttttttaacataattg 17464944

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 180/224 (80%), Gaps = 1/224 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 ||||||||||||| | ||||||||||||| ||||||| ||| | ||||||| |||||
 Sbjct: 28930431 aaaattaattgtcataaaaatttattatttaaatttacatgtgtattaaatatattaaa
 28930372

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||| | ||||||||| || | |||| | ||||||||| |||| | ||||| ||
 Sbjct: 28930371 aattataatggttatatataacaacattatttattttatattgtaattcgttcattagctc
 28930312

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgggatc
 5296
 ||||||||||||| || || ||||||| ||||||||| | ||| ||||||| |||||
 Sbjct: 28930311 agttgggttagaatgttggtgctaataacctgaaagtcacagggttaattcttgtttgggtc
 28930252

Query: 5297 attaatTTTTaaattaatttGTaaaatatatttttGaaaaaaaaa 5340
 ||||||||| ||||||||| || | ||||||| |||||||||
 Sbjct: 28930251 attaatTTTt-aattaatttGtcacaaatatttttagaaaaaaaaa 28930209

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 91/107 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

||||| ||| ||||||| || ||||||| ||||||| ||||||| ||
Sbjct: 46133166 aaaattaattattataaaaatttatcatttaaatttatatgcacattaaatatacatttaa
46133107

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223

||||| ||||||| | || | ||||||| ||||||| |||||||
Sbjct: 46133106 aatttaagtgttacaaataataacattaattattttataacataatt 46133060

Score = 83.8 bits (42), Expect = 5e-13
Identities = 63/70 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

||||| ||||||| ||||||| ||||||| ||||||| || ||||||| |||||||
Sbjct: 18457822 aaaattaattgccacaaaatttattatttaaatttgcacatgcgcattaaatatacattaga
18457763

Query: 5177 aatttttagtg 5186

||| |||||
Sbjct: 18457762 aatgttagtg 18457753

Score = 83.8 bits (42), Expect = 5e-13
Identities = 42/42 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaac 1684

||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 39113830 aacgccttatcccactaggtggggctcggctacatggatcaac 39113871

Score = 83.8 bits (42), Expect = 5e-13
Identities = 109/130 (83%), Gaps = 1/130 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

||||| ||||||| ||||||| ||||||| ||||| ||||| || ||||||| ||
Sbjct: 48394351 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattcaatatacatataaa
48394410

[illegible]

Sbjct: 33422418 aaatcttactgtcatatataatgacattaattatctttataacataattgatctatta
33422362

Score = 81.8 bits (41), Expect = 2e-12
Identities = 74/85 (87%)
Strand = Plus / Minus

Query: 5014 ataatcttaataaaattatcttatgaataaaataaaagggtttattcttaaaatttgcttgag
5073

|||||
Sbjct: 48188324 ataatcttaataaaataatcttatgagtaaataaaagacattatcttttaaatttatcttag
48188265

Query: 5074 ccctctcaagtccttgagccgcccc 5098

|||||
Sbjct: 48188264 gcctctcaaatccttgagccgcccc 48188240

Score = 79.8 bits (40), Expect = 7e-12
Identities = 98/116 (84%), Gaps = 1/116 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttataaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 9486160 aaaattaattggttataaaaatttattaaagtaaatttatatatgtattaaatatacattaaa
9486219

Query: 5177 aatcttagtggttatatcttagtgaaattaattatctttataacataattgatgtatta 5232

|||||
Sbjct: 9486220 aatcttaa-tggtatatatagtgatattaattatctttataacataattaatttatta
9486274

Score = 79.8 bits (40), Expect = 7e-12
Identities = 64/72 (88%)
Strand = Plus / Plus

Query: 5176 aaatcttagtggttatatcttagtgaaattaattatctttataacataattgatgtattagtt
5235

|||||
Sbjct: 18161701 aaattatagtggttatatatagcgacattaattatctttataacataattagtttattagct
18161760

Query: 5236 cagttgggtaga 5247
 |||||
Sbjct: 18161761 cagttgggtaga 18161772

Score = 79.8 bits (40), Expect = 7e-12
Identities = 121/148 (81%)
Strand = Plus / Minus

Query: 5183 agtggtatatttagtgaaattaattattttataacataattgatgtattagttcagttgg
5242
 ||||| ||| | ||||| ||||| ||||| || ||| |||
Sbjct: 46736521 agtggtatatacagtaacattaattatcttataatataattgatttgtagtcaattga
46736462

Query: 5243 ttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgatcattaat
5302
 | |||| | ||||| ||||| ||||| ||| | || | |||||
Sbjct: 46736461 taagagtgttatgttaataatgtgaaaatcacagggttgattttgcatgaaccattaat
46736402

Query: 5303 tttaaattaatttgtaaaatatattttt 5330
 ||| ||||| ||||| |||||
Sbjct: 46736401 tttgaattaattcctaaaatatattttt 46736374

Score = 77.8 bits (39), Expect = 3e-11
Identities = 111/135 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||| | | ||||| ||||| |
Sbjct: 212126 aaaattaattgtcacaaaatttattatttaaatttacattcgtattaaataaacattaa
212185

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| | ||||| || | |||| | ||||| || ||||| | ||||| |
Sbjct: 212186 aattttaattatataataacaacattatttattttagaatataattaacgtattagcta
212245

Query: 5237 agttggtagagcat 5251
 |||| | |||||
Sbjct: 212246 agttgattagagcat 212260

Score = 77.8 bits (39), Expect = 3e-11
Identities = 90/107 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
 ||||||| ||||||| ||||||| ||||||| ||||| || | ||||||| ||||||| |
Sbjct: 13301891 aaaattagttgttataaaaatttattatataaaacttatatgtgtattaaatatacattaca
13301832

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataatt 5223
 ||||||| ||||||| || | | ||||||| ||||||| ||||||| ||
Sbjct: 13301831 aattttagagttatatataataacattaattattttttaacataatt 13301785

Score = 77.8 bits (39), Expect = 3e-11
Identities = 96/115 (83%)
Strand = Plus / Plus

Query: 7046 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
7105
 ||||||| || || ||||| ||||||| || || ||||||| || |||||||
Sbjct: 19069194 attgtctcctggaccaagaaccgtatgtcgcacgattgaactcaagaatagtgtgagcc
19069253

Query: 7106 tttgccttttctgtatgtctttcatagccttgtttaatacttttgataaaactt 7160
 ||||||| ||||| ||||||| || ||||||| ||||| ||||||| ||
Sbjct: 19069254 tttgccttttctgtgtgtcttcaatggccttgtttagtacttggtataaaactt
19069308

Score = 77.8 bits (39), Expect = 3e-11
Identities = 75/87 (86%)
Strand = Plus / Plus

Query: 5265 tgaaagtcaaaagttcaattcttacttggatcattaattttaaattaatttgtaaaatat
5324
 ||||||| ||||| | | ||||| ||||||| ||||||| ||||||| || || ||
Sbjct: 21871646 tgaaagtcacaagtcagagtccttgcttgggtcattaattttaaattaatttgacacaaat
21871705

Query: 5325 atttttgaaaaaaaaaattataaaaaaa 5351
 ||||||| ||||||| ||||||| |||||||
Sbjct: 21871706 atttttcaaaaaaaaaaattataaaaaaa 21871732

Score = 75.8 bits (38), Expect = 1e-10
Identities = 50/54 (92%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataataacaacaaaaatttttaaatacaaacatg 6633
 ||||| ||||| ||||| ||| |||||
Sbjct: 26568730 aaaatatttacatttgaattaataacaacaaaatttttaaatacaaacatg
26568677

Score = 75.8 bits (38), Expect = 1e-10
Identities = 155/193 (80%), Gaps = 2/193 (1%)
Strand = Plus / Plus

Query: 7046 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
7105
 ||||| || ||||| ||| ||||| |||
Sbjct: 27895616 attgtctcctaacaagaactgtatgtcacatcgatcgaactcaagaacaatgtgagt
27895675

Query: 7106 tttgcctttttctgtatgtctttcatagccttggttaataactttgtataaacttcacca
7165
 |||| |||| ||| | || || ||||| ||||| ||
Sbjct: 27895676 tttgtctttctctatgcattttctatgaccttggttaataacttgcgataaacttggtca
27895735

Query: 7166 aatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacctagta
7225
 ||||| || | ||| ||||| ||| ||||| ||||| ||
Sbjct: 27895736 gatgtaagcattgtgtgacttctct--ttttttgttgaataatgcattacacctata
27895793

Query: 7226 taggttgatttta 7238
 || |||||
Sbjct: 27895794 tatgttgatttta 27895806

Score = 75.8 bits (38), Expect = 1e-10
Identities = 50/54 (92%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggtttattcttaaatg 5067
 ||||| ||||| ||||| || ||||| |||||

Sbjct: 45994495 ataattttaataaaactatatttatgaataaataaaaagtcttatttttaaatg
 45994442

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 106/129 (82%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacatgaga
 5176

Sbjct: 1958436 aaaattaattattacaaaatttgttatgtaaacttatatttgtattaaatatacatgata
 1958495

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtgc
 5236

Sbjct: 1958496 aatttttagtattatataatagcgatgttaattattttttaacataattgatataattaactt
 1958555

Query: 5237 agttgggta 5245
 Sbjct: 1958556 agttgggta 1958564

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 80/93 (86%), Gaps = 1/93 (1%)
 Strand = Plus / Minus

Query: 5130 acaaaaatttattatctaaatttgcacataaatatacatgagaatttttagtggtta
 5189

Sbjct: 12232646 acaaaaatttagtatgtaaatttacatgtacattaaatataaaattaaaaatttttagtggtta
 12232587

Query: 5190 tatttagtgaaattaattattttataacataat 5222
 Sbjct: 12232586 tatatagcgacactattta-tttataacataat 12232555

Score = 73.8 bits (37), Expect = 5e-10
 Identities = 92/109 (84%), Gaps = 1/109 (0%)
 Strand = Plus / Plus

```
Query: 5073      gccctctcaagtcctt 5088
                |  |||||
Sbjct: 1975775  gatctctcaagtcctt 1975760
```

Score = 71.9 bits (36), Expect = 2e-09
Identities = 42/44 (95%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5339
 |||||||||||||||||| ||||| ||||||||||||||||
Sbjct: 3339381 cattaatttttaaattaattcgtaaaacatatttttgaaaaaaaa 3339338

Score = 71.9 bits (36), Expect = 2e-09
Identities = 66/76 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
 |||||||||||| |||||||||||| | |||||||| |||| | | |||||||||||||| |
Sbjct: 6615954 aaaattaattgtcacaaaatttattttataaatttacatgtatattaaatatacattaaa
6615895

Query: 5177 aatttttagtggttatat 5192
 |||||| | |||||
Sbjct: 6615894 aattttaattatttatat 6615879

Score = 71.9 bits (36), Expect = 2e-09
Identities = 63/72 (87%)
Strand = Plus / Minus

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 ||||| |||||||||| || || |||||||||||||||||||| | ||||| |
Sbjct: 18442255 aaattatagtgttatatataacgacattaattattttataacataattagtttattagct
18442196

Query: 5236 cagttgggttaga 5247
 ||||||||||||
Sbjct: 18442195 cagttgggttaga 18442184

Score = 71.9 bits (36), Expect = 2e-09
Identities = 39/40 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatca 1682
 |||||
Sbjct: 28897484 aacgccttatccactaggtgggggttggtacatggatca 28897445

Score = 71.9 bits (36), Expect = 2e-09
Identities = 69/80 (86%)
Strand = Plus / Plus

Query: 5192 tttagtgaaattaattattttataacataattgatgtattagttcagttgggttagagcat
5251
 |||||
Sbjct: 46133428 ttttagtgatattaattattttataatataattgacctattagttgaattgggttagaatgt
46133487

Query: 5252 tatgttaataatgtgaaagt 5271
 || |
Sbjct: 46133488 tacgataataatgtgaaagt 46133507

Score = 69.9 bits (35), Expect = 7e-09
Identities = 64/73 (87%), Gaps = 3/73 (4%)
Strand = Plus / Minus

Query: 6881 cgtatacacaagatgtatgtagttcctatactcatgggtgagcatgcttata---aacaac
6937
 |||||
Sbjct: 28271548 cgtatgcacacgatgtatgtagttcatatactcatgggtgagcatccttacaagtagcaac
28271489

Query: 6938 aacatgagaacaa 6950
 |||||
Sbjct: 28271488 aacatgagaacaa 28271476

Score = 69.9 bits (35), Expect = 7e-09
Identities = 59/67 (88%)
Strand = Plus / Plus

Query: 6682 gacacatggaacatcatttttggtttacctgattcttggatatccattttggtgtgtatac
6741
 |||||
Sbjct: 42697439 gacacatggaacatcatttttggttgacttggttctctcatatccattttggtgtgtatac
42697498

Query: 6742 gagagga 6748
 |||||
 Sbjct: 42697499 gagagga 42697505

Score = 67.9 bits (34), Expect = 3e-08
 Identities = 85/102 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga 5176
 |||||
 Sbjct: 1958345 aaaattaattgttattaaatttattatataaaatttatatatgtattaaatatacattaaa 1958286

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataaca 5218
 || |||||
 Sbjct: 1958285 aaatttagtggttatataatgacgttaattattttttaaca 1958244

Score = 67.9 bits (34), Expect = 3e-08
 Identities = 43/46 (93%)
 Strand = Plus / Plus

Query: 5294 atcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5339
 |||||
 Sbjct: 4058179 atcattaatttttaaattaatttcataaattatatatttttgaaaaaaaa 4058224

Score = 67.9 bits (34), Expect = 3e-08
 Identities = 148/186 (79%)
 Strand = Plus / Plus

Query: 7033 ctctctccagtttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaag 7092
 |||||
 Sbjct: 11740456 ctctctcgagtttattgtctcctggaccaagaactgtgtgtcacgttgattgaactcaat 11740515

Query: 7093 aacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaataacttttgt 7152
 || |
 Sbjct: 11740516 aatagtgtgagtgtttgcctctctctgtgcgtcttcgatgcccttgtttagtgcttgcac 11740575

Query: 7153 ataaacttcaccaaataatgtaatacactcttgcgacttctctccccctttgggtgaacaatgc
7212

||||||| ||| ||| || | | |||| | ||||| |||| | ||| ||||| |||||
Sbjct: 11740576 ataaacttggccagatgcaagtattggtgcaacttctctccctcttttggtgaacaatgc
11740635

Query: 7213 attaca 7218

|||||
Sbjct: 11740636 attaca 11740641

Score = 67.9 bits (34), Expect = 3e-08
Identities = 169/212 (79%), Gaps = 4/212 (1%)
Strand = Plus / Minus

Query: 7084 gaactcaagaacaatgtgagagtttgcccttttctgtatgtctttcatagccttggttaa
7143

||||||| ||||| ||||| || | || | ||| || ||||| ||
Sbjct: 27899633 gaactcaagaataatgtgagcatttgcccttctatgtttatcttcaatgtccttggttag
27899574

Query: 7144 tacttttgtataaaacttcaccaaataatgtaatacactcttgcgacttctctccccctttgggt
7203

|||| | ||||| || | || | || | || | ||||| ||| |||
Sbjct: 27899573 tacttgcttataaaacttgactagatataaccatttttgtagacttctctccctctt--gtt
27899516

Query: 7204 gaacaatgcattacacctagtaggttgattttacca--acacacattgccagattttg
7261

||||||| ||||| | ||| ||||| || | ||| ||| || |||
Sbjct: 27899515 gaacaatgcattacactttatatatgttgattttactagtgacttattggcaaatttct
27899456

Query: 7262 tgttttcttgagtaccaaattaattaactcag 7293

| ||||| ||||| ||||| |||||
Sbjct: 27899455 taatttcttgagtaccaaattaatcaactcag 27899424

Score = 65.9 bits (33), Expect = 1e-07
Identities = 42/45 (93%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5339

||||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 4123923 tcattaatttttaaattaattataaattatatatttttgaaaaaaaa 4123879

Score = 65.9 bits (33), Expect = 1e-07
Identities = 60/69 (86%)
Strand = Plus / Minus

Query: 5266 gaaagtcaaaagttcaattcttacttggatcattaattttaaattaatttgtaaaatata
5325
Sbjct: 12471009 gaaagtcacaagtttgattcctgcttgaatcattaattttaaattaattcataaaacata
12470950

Query: 5326 tttttgaaa 5334
Sbjct: 12470949 tttttgaaa 12470941

Score = 65.9 bits (33), Expect = 1e-07
Identities = 45/49 (91%)
Strand = Plus / Minus

Query: 7297 ccccatcgccagccaccatcccatgcgagagtccacttttcttgtggaa 7345
Sbjct: 26565847 ccccatcgttagccaccatcccatgcgagaatccaattttcttgtggaa 26565799

Score = 65.9 bits (33), Expect = 1e-07
Identities = 109/133 (81%), Gaps = 1/133 (0%)
Strand = Plus / Plus

Query: 7075 gcattaatcgaactcaagaacaatgtgagagtttgcctttttct-gtatgtctttcatag
7133
Sbjct: 42697688 gcattgatcaaactcaagaatatagtgagagttggcctttttttgtgagtcttccatag
42697747

Query: 7134 ccttgtttaatacttttgtataaacttcaccaaataatcactcttgcgacttctctcc
7193
Sbjct: 42697748 ccttgtttagtattttgtataaacatggtagatctaataatggttgacttctctcc
42697807

Query: 7194 ccctttggttgaa 7206
Sbjct: 42697808 ctctttggttgaa 42697820

Score = 65.9 bits (33), Expect = 1e-07
Identities = 45/49 (91%)
Strand = Plus / Plus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagc 5249
 |||||
Sbjct: 46603014 attaattatTTTtataacataattgatctattagctcaactggttagagc 46603062

Score = 63.9 bits (32), Expect = 4e-07
Identities = 77/92 (83%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcattgcacaataaatatacattagaaatttttagtggtata 5191
 |||||
Sbjct: 669043 aaaatttattatctaaacttatatgtgcattaaatatatattaaatttttttagtattata 668984

Query: 5192 tttagtgaaattaattatTTTtataacataatt 5223
 | | | |
Sbjct: 668983 tataataatattaattatTTTtataacataatt 668952

Score = 63.9 bits (32), Expect = 4e-07
Identities = 51/56 (91%), Gaps = 1/56 (1%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 13109483 cattaatttttaaactaattcgtaaaatatatttttaaaaaaataatt-taaaaaaa 13109429

Score = 63.9 bits (32), Expect = 4e-07
Identities = 107/132 (81%)
Strand = Plus / Plus

Query: 5117 aaaattaattgtttacaaaatttattatctaaatttgcattgcacaataaatatacattaga 5176
 |||||
Sbjct: 13760339 aaaattaattttttacaaaatttatcatgtaaaacttatatgtgtattaaatataactttaaa 13760398

|||||
Sbjct: 6385908 aatttattatgtaaattacatatatattaaatataaattagaaattttagtggtatat
6385850

Score = 62.0 bits (31), Expect = 2e-06
Identities = 64/74 (86%), Gaps = 2/74 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 36424664 aaaattaattgtcaca--tttattatttaaatttacatgcgcattaaaaatatattaga
36424721

Query: 5177 aatttttagtggtat 5190
 |||||
Sbjct: 36424722 aatttttagagttat 36424735

Score = 62.0 bits (31), Expect = 2e-06
Identities = 52/59 (88%)
Strand = Plus / Minus

Query: 5030 attttatgaataaataaaaagggttttattcttaaatttgcttgagccctctcaagtcctt
5088
 |||||
Sbjct: 47194516 attttatgagtaaataaaaagggtcttattcttaaatttactttaaacctttcaagtcctt
47194458

Score = 60.0 bits (30), Expect = 7e-06
Identities = 54/62 (87%)
Strand = Plus / Minus

Query: 5162 taaataacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 |||||
Sbjct: 2511393 taaataacattaaaaatgtcagtggttacatatagcgacattaattattttataataa
2511334

Query: 5222 tt 5223
 ||
Sbjct: 2511333 tt 2511332

Score = 60.0 bits (30), Expect = 7e-06
Identities = 51/58 (87%)

Strand = Plus / Minus

Query: 7309 ccaccatcccatgcgagagtcactttttcttggtgaatcttcctaagctaattaattg
7366
||||||| || ||||||||||| ||||||||||| || ||| |||||||
Sbjct: 28667240 ccaccatctcacgagagtcattttttcttggtgaatctcactgagccaattaattg
28667183

Score = 60.0 bits (30), Expect = 7e-06
Identities = 36/38 (94%)
Strand = Plus / Plus

Query: 6433 ctttgtatTTTTATTTATTTGATTATTATAATACATA 6470
||||||| ||||||||||| |||||||
Sbjct: 32464760 ctttgtatTTTCATTTATTTGATTATTAATAACATA 32464797

Score = 60.0 bits (30), Expect = 7e-06
Identities = 83/100 (83%), Gaps = 3/100 (3%)
Strand = Plus / Plus

Query: 6905 cctatactcatggtgagcatgcttata---aacaacaacatgagaacaaaacatgtgcat
6961
||||||||| ||||||| | | ||||||| ||||| ||||| ||
Sbjct: 42697517 cctatactcatggtgagcatgcttacaagtagcaacaacatgcgaacaaggcatgtacac
42697576

Query: 6962 tttttgaaatttgtcacagtcacactacctttcatctagc 7001
||||| ||||| ||| ||||||||||| |||||
Sbjct: 42697577 cttttggaatttactacaatcacactacctttgatctagc 42697616

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 1646 gccttatcccataggtggggtcggctacatggatca 1682
||||||||| ||||| |||||||
Sbjct: 7877272 gccttatcccataggtgaggtcgactacatggatca 7877236

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)

Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682
 |||||
Sbjct: 10510384 gccttatcccactagatgaggtcggctacatggatca 10510420

Score = 58.0 bits (29), Expect = 3e-05
Identities = 82/99 (82%), Gaps = 3/99 (3%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 28148870 aaaattaattgtcataaaaatttattatttaaata---atgtgcattaaatatattata
28148814

Query: 5177 aatttttagtggttatatttagtgaaattaattattttata 5215
 |||||
Sbjct: 28148813 aatttttagttttatatataacgacattaattattttata 28148775

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 6042 tttttttatccaaataataaaaaaaaaaattaattatttacccaa 6085
 |||||
Sbjct: 13163223 tttttttacccaaataatacaataaattaattatttatccaa 13163180

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 6431 tcctttgtatttttattttatttgattattataataacata 6470
 |||||
Sbjct: 19068563 tccttcgtattttcattttatttgattattaaaatacata 19068602

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5339
 |||||||||||||||||| ||||| ||||||| |||||||
Sbjct: 19109822 cattaatttttaaattaattcataaaacatatttttaaaaaaaa 19109779

Score = 56.0 bits (28), Expect = 1e-04
Identities = 50/56 (89%), Gaps = 1/56 (1%)
Strand = Plus / Plus

Query: 4832 tttagaaaaaaaaagagattttaataattaatagctaaagaaatccaaaagtttttctt 4887
 |||||||||||||| |||||||||| ||||||| |||| ||| | |||||||||||||
Sbjct: 27317603 tttagaaaaaaaa-agattttaatagttaatagttaaaaaacctaaaagtttttctt
27317657

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatattttaaattacaaaatagatat 6559
 ||||||||| || ||||||||||||||||||||| ||| ||||
Sbjct: 27895045 acaagttgaattaaactaaaatattttaaattacaatatatatat 27895088

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 6431 tcctttgtatttttattttatttgattattataataacata 6470
 ||||||||||||| |||||||| |||||||| ||||||||
Sbjct: 28668118 tcctttgtattttcattttattggattattaaaatacata 28668079

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Plus

Query: 6042 tttttttatccaaataataaaaaaaaaattaattttaccctaaa 6085
 |||||||| ||||||||| ||| ||||||| |||||||||
Sbjct: 32463630 tttttttaccctaaataatacaataaattaatatattaccctaaa 32463673

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaaatatacattaga
5176

|||||
Sbjct: 18657757 aaaattaattgttacaaaattaattatgtaaacttatatgtgtattaaatataaaattaa
18657816

Query: 5177 aatttttagtggttatatttagtgaaattaattattt 5211
|||||
Sbjct: 18657817 aatttttaatggtatatataattaacattaattattt 18657851

Score = 54.0 bits (27), Expect = 4e-04
Identities = 36/39 (92%)
Strand = Plus / Minus

Query: 7183 gacttctctccccctttggttgaacaatgcattacacct 7221
|||||
Sbjct: 28271245 gacttctcttctcttttgttgaacaatgcattacacct 28271207

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 1744 ctttttgataacctctcttatagtcttttttg 1774
|||||
Sbjct: 28897423 ctttttggtaacctctcttatagtcttttttg 28897393

Score = 54.0 bits (27), Expect = 4e-04
Identities = 54/63 (85%)
Strand = Plus / Minus

Query: 5130 acaaaattttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtta
5189
|||||
Sbjct: 46057133 acaaaattttatcatgttaaatttacatatacattaaatataaaattagaaattttattatta
46057074

Query: 5190 tat 5192
|||
Sbjct: 46057073 tat 46057071

Score = 52.0 bits (26), Expect = 0.002
Identities = 56/66 (84%)

Strand = Plus / Plus

Query: 5208 attttataacataattgatgtattagttcagttggtagagcattatggttaataatgtga
5267

|||||
Sbjct: 2510957 attttataacattattgacctattagcttagttggtagagcgtcataactaataatgcga
2511016

Query: 5268 aagtca 5273

|||||
Sbjct: 2511017 aagtca 2511022

Score = 52.0 bits (26), Expect = 0.002
Identities = 62/74 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 48547194 aaaattaattatcacaaaatttattgtttaaatttacatgtgtattaaacatgcgtaga
48547253

Query: 5177 aatttttagtggttat 5190

|||||
Sbjct: 48547254 aatttttagtggttat 48547267

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Plus

Query: 5118 aaattaattggttacaaaatttattatctaaattt 5151

|||||
Sbjct: 48653843 aaattaattttttacaaaatttattattttaaattt 48653876

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 1646 gccttatccactaggtggggctcggctacatggatca 1682

|||||
Sbjct: 6958546 gccttatccactaagtgtggtcagctacatggatca 6958510

Score = 50.1 bits (25), Expect = 0.007
 Identities = 67/80 (83%), Gaps = 2/80 (2%)
 Strand = Plus / Plus

Query: 6909 tactcatggtgagcatgcttataaacaacaac--atgagaacaaaacatgtgcatttttt
 6966
 ||||| ||||| ||||| || ||||| ||||| || ||||| ||||| |||||
 Sbjct: 10561469 tactcatgatgagcatgcttacaagcaacaacgaatgagaataaggatgtgcaatttct
 10561528

Query: 6967 gaaatttgtcacagtcacac 6986
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 10561529 agaatttgtcacagtcacac 10561548

Score = 50.1 bits (25), Expect = 0.007
 Identities = 31/33 (93%)
 Strand = Plus / Minus

Query: 5298 ttaatttttaaattaatttgtaaaatatattttt 5330
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 11078309 ttaatttttaaattaattcgtaaaacatatattttt 11078277

Score = 50.1 bits (25), Expect = 0.007
 Identities = 62/73 (84%), Gaps = 1/73 (1%)
 Strand = Plus / Plus

Query: 4822 catagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaaaagtt
 4881
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 13152092 catagttttatttagagaaaaa-agatataatagttaatagttaaaaaaatctaaaaact
 13152150

Query: 4882 tttcttttatttt 4894
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 13152151 tttcttttatttt 13152163

Score = 50.1 bits (25), Expect = 0.007
 Identities = 46/53 (86%)
 Strand = Plus / Minus

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaatttattttttgaaggg 1310
 ||||||| ||||| ||||||| | ||||||| |||||||
Sbjct: 28079029 atctgatacgtgggttattggcccatgttatattaaatccattttttgaaggg
28078977

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 1747 tttgataacctctcttatagtctttttgg 1775
 ||||||| |||||||
Sbjct: 28897444 tttgataacctctcttatagtctttttgg 28897416

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttat 5140
 ||||||| |||||||
Sbjct: 112337 aaaattaattgttacaaaatttat 112314

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggg 1666
 ||||||| |||||||
Sbjct: 250430 aacgccttatcccactaggtgggg 250407

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggg 1666
 ||||||| |||||||
Sbjct: 1764168 aacgccttatcccactaggtgggg 1764191

Score = 48.1 bits (24), Expect = 0.026
Identities = 48/56 (85%)
Strand = Plus / Plus

Query: 7183 gacttctctcccccttttggttgaacaatgcattacacctagtatagggttgatttta 7238
||||||| ||| ||||| ||||| ||| |||||
Sbjct: 19069330 gacttctctccctctttttttgaacaatgtattacaccttagatatgttgatttta
19069385

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 5324 tatttttgaaaaaaaaaattataaaaaaa 5351
||||||| |||||
Sbjct: 23238588 tatttttgaaaaaaaaaattataaaaaaa 23238561

Score = 48.1 bits (24), Expect = 0.026
Identities = 42/48 (87%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtccacttttcttg 7340
||||| |||| | ||||| ||||| ||| ||| |||||
Sbjct: 27899407 gtgtcctcatcgtcggccaccatcccatgcaagaatccatttttcttg 27899360

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaca 5570
||||||| |||||
Sbjct: 1087594 ttttttttaaaaaaaaaaaaaaca 1087616

Score = 46.1 bits (23), Expect = 0.10
Identities = 35/39 (89%)
Strand = Plus / Minus

Query: 5593 aaatagagtaattttataactatttatatgtcatggggtt 5631
||||||| |||| | ||||| |||||
Sbjct: 1785934 aaatagagtagttttaaaattatttatatgttatggggtt 1785896

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaa 5147
 ||||| ||| |||||
Sbjct: 5749276 aaaattaattattataaaaatttattatctaa 5749246

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 ||||| || |||||
Sbjct: 10561103 acaagttgaatttaactaaaatatttaaatt 10561133

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 ||||| | |||||
Sbjct: 11739962 acaagttaaattgaactaaaatatttaaatt 11739992

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5322 tatatTTTTGAAAAAAAAATTATAAAA 5348
 ||||| |||||
Sbjct: 11861954 tatatTTTTTAAAAAAAAATTATAAAA 11861980

Score = 46.1 bits (23), Expect = 0.10
Identities = 35/39 (89%)
Strand = Plus / Plus

Query: 5028 ttatTTTTatgaataaataaaaaggTTTTattcttaaattt 5066
 | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 13152157 ttatTTTTatgagtaaataaaaatgTTTcatttttaaattt 13152195

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggctcggctacatggatca 1682
 | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 17685772 cttatccccctaggtgagatcggctacatggatca 17685738

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatat 5192
 | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 18657615 taaatatgcattagaaaatttttagtggtcatat 18657585

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 2413 gactatgtcatctgcaaaaagcatgca 2439
 | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 27915820 gactatatcatctgcaaaaagcatgca 27915794

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatatTTTT 5330
 | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 137725 attaatttttaaattatttcataaaatatatTTTT 137692

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)

Strand = Plus / Plus

```
Query: 1649      ttatcccactaggtggggtcggctacatggatca 1682
               ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2634151 ttatctcactaggtgatgtcggctacatggatca 2634184
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
               ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 2649536 ctttttttttaaaaaaaaaaaaaa 2649515
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 52/62 (83%)
Strand = Plus / Plus

```
Query: 5162      taaatatacattagaaattttagtgttatatatttagtgaaattaattattttataacataa
5221
               ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3587966 taaatataatataaaaaattatattattatataacgacattaattatttataatataa
3588025
```

```
Query: 5222      tt 5223
               ||
Sbjct: 3588026 tt 3588027
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5568
               ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 5456403 ctttttttttaaaaaaaaaaaaaa 5456424
```

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 1650 tatccactaggtggggctcggtacatggatcaa 1683
 |||||
Sbjct: 7377162 tatccactagatggagtcagctacatggatcaa 7377129

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 7997480 tttttttttaaaaaaaaaaaaaaac 7997459

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5558 aaaaaaaaaaacaagtaataaaaaaac 5583
 |||||
Sbjct: 13036919 aaaaaaaaaaacaagtgataaaaaaac 13036944

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5330 tgaaaaaaaaattataaaaaaaa 5351
 |||||
Sbjct: 17860631 tgaaaaaaaaattataaaaaaaa 17860610

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 19067663 tttttttttaaaaaaaaaaaaaaac 19067642

Score = 44.1 bits (22), Expect = 0.41

Identities = 49/58 (84%)
Strand = Plus / Plus

Query: 2679 atctctctcggtaacttatgaatcaagggttatcaacatacacgtgagtcattttca
2736
 ||||| ||| ||||| | |||| | ||| ||| |||||
Sbjct: 20043346 atctctctcgggtgactcgtgaatccaagttaccaacatacacgcgagacatcttttca
20043403

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 21894499 ctttttttttaaaaaaaaaaaaaa 21894478

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||| |||| | |||||
Sbjct: 23503681 ttatcccactatgtgaggtcagctacatggatca 23503648

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 5015 taattttaataaattattttatgaataaataaaa 5048
 ||||| |||| ||| | |||||
Sbjct: 27317678 taattttaataaactatttctataaataaataaaa 27317711

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 7265 tttcttgagtaccaaattaatt 7286
 ||||| |||||
Sbjct: 27895827 tttcttgagtaccaaattaatt 27895848

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatattt 6541
 ||||| |||||
Sbjct: 28271914 acaagttgaattgaactaaaatattt 28271889

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5334 aaaaaaattataaaaaaatgaa 5355
 |||||
Sbjct: 34684166 aaaaaaattataaaaaaatgaa 34684145

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 38630321 ctttttttttaaaaaaaaaaaaaa 38630342

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6298 tttttattttttttgttattaa 6319
 |||||
Sbjct: 42033882 tttttattttttttgttattaa 42033861

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 48039352 ctttttttttaaaaaaaaaaaaaa 48039373

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5321 atatatttttgaaaaaaaaattataa 5346
|||||||
Sbjct: 48410061 atatatttttgaaaaaaaaattataa 48410086

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6267 ttttttttgtttgtttttaa 6287
|||||||
Sbjct: 264649 ttttttttgtttgtttttaa 264669

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 2206431 ctttttttttaaaaaaaaaaaaaa 2206451

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5334 aaaaaaattataaaaaaatga 5354
|||||||
Sbjct: 2790390 aaaaaaattataaaaaaatga 2790370

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 7401      atatattttattataaaaacaaa 7421
              |||||
Sbjct: 3762851 atatattttattataaaaacaaa 3762831
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 6491      aaattaaaaaatatatattta 6511
              |||||
Sbjct: 5186952 aaattaaaaaatatatattta 5186932
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
              |||||
Sbjct: 5313847 ttttttttaaaaaaaaaaaaaa 5313827
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
              |||||
Sbjct: 5792796 ttttttttaaaaaaaaaaaaaa 5792776
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
              |||||
Sbjct: 5830144 ttttttttaaaaaaaaaaaaaa 5830124
```


Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 7066594 tttttttttaaaaaaaaaaaaaa 7066574

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttta 6285
 |||||
Sbjct: 7757828 ttttttttttgttttgtttta 7757808

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 9517424 gccttatcccactaggtgaggtaagctacatgaatca 9517388

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 11424919 tttttttttaaaaaaaaaaaaaa 11424939

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 12467326 cttttttttaaaaaaaaaaaaaa 12467346

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6786 ttggggcaaattccttggttg 6806
 |||||
Sbjct: 12557141 ttggggcaaattccttggttg 12557121

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 3892 taaaaatgattttttttaaat 3912
 |||||
Sbjct: 13105507 taaaaatgattttttttaaat 13105487

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 14161789 aacttttttttaaaaaaaaaa 14161769

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6488 ttgaaattaaaaaatatatatttaa 6512
 |||||
Sbjct: 19148883 ttgaaattaaaaaatatataattaa 19148859

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 20698306 tttttttttaaaaaaaaaaaaaa 20698326

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5456 aaaatagacatacaaatgaaa 5476
 ||||||||||||||||||||
Sbjct: 24372412 aaaatagacatacaaatgaaa 24372392

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6492 aattaaaaaatatatatttaa 6512
 ||||||||||||||||||||
Sbjct: 27688291 aattaaaaaatatatatttaa 27688311

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 6438 tattttttattttatttgattattataata 6466
 |||||| |||||||||||||||||| ||||
Sbjct: 27894979 tatttttcattttatttgattattataata 27895007

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggt 1667
 ||||||||| ||||||||||||||||
Sbjct: 28906506 aacgccttattccactaggtgggggt 28906482

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaa 5567
                |||
Sbjct: 29994319 ctttttttttaaaaaaaaaaaaaa 29994299
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

```
Query: 5556      aaaaaaaaaaaaaacaagtaataaaaaaact 5584
                |||
Sbjct: 30513595 aaaaaaaaaaaaaacaagccataaaaaaact 30513623
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 541       atttaattagtttaataatt 561
                |||
Sbjct: 31602620 atttaattagtttaataatt 31602640
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttttaaaaaaaaaaaaaa 5568
                |||
Sbjct: 36265856 ttttttttttaaaaaaaaaaaaaa 36265876
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5318      aaaatatatttttgaaaaaaaaa 5338
                |||
Sbjct: 36424590 aaaatatatttttgaaaaaaaaa 36424570
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 36741157 ttttttttaaaaaaaaaaaaaa 36741137

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 36919917 ttttttttaaaaaaaaaaaaaa 36919937

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5318 aaaatatatttttgaaaaaaaaaatt 5342
 |||||||||||||| |||||||||
Sbjct: 38587681 aaaatatatttttgcaaaaaaaaaatt 38587657

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 7518 cttgattcaagggttcattgta 7538
 ||||||||||||||||||
Sbjct: 38590887 cttgattcaagggttcattgta 38590867

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 5300 aatttttaaatatatttgtaaaatatatttttgaaaaa 5336
 ||||||| ||||| ||||| |||||||||||||
Sbjct: 38991649 aatttttaacttaattcataaaatctatttttgaaaaa 38991613

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5333 aaaaaaaattataaaaaaatg 5353
 |||||
Sbjct: 40652619 aaaaaaaattataaaaaaatg 40652599

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaac 5569
 |||||
Sbjct: 41303441 aactttttttcaaaaaaaaaaac 41303417

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaa 5567
 |||||
Sbjct: 42233428 ctttttttttaaaaaaaaaaaa 42233448

Score = 42.1 bits (21), Expect = 1.6
Identities = 54/65 (83%)
Strand = Plus / Plus

Query: 2656 aaaacatggaattcatcctcaacatctctctcggttaacttatgaatcaagggttatcaaca
2715
 |||||
Sbjct: 42512039 aaaacacggaattcgtcttcgagatctctctcggtgactcctgaatccaaggtaccaaca
42512098

Query: 2716 tacac 2720
 |||||
Sbjct: 42512099 tacac 42512103

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 42799485 tttttttttaaaaaaaaaaaaaa 42799465
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 2420      tcatctgcaaaaagcatgcat 2440
                |||||||||||||||||||
Sbjct: 45372045 tcatctgcaaaaagcatgcat 45372065
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 2588      attttttttctttctaaacat 2608
                |||||||||||||||||||
Sbjct: 45814790 attttttttctttctaaacat 45814810
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 45900919 tttttttttaaaaaaaaaaaaaa 45900899
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 7402      tatttttattataaaacaaac 7422
                |||||||||||||||||||
```

Sbjct: 45933044 tttttttattataaaacaaac 45933064

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 46315084 ttttttttaaaaaaaaaaaaaa 46315064

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5325 atttttgaaaaaaaaattata 5345
|||||
Sbjct: 46718493 atttttgaaaaaaaaattata 46718473

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6150 acatttttttatacatttagaaatt 6174
|||||
Sbjct: 47377942 acatttttttatatatatttagaaatt 47377966

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5024 taaattattttatgaataaataaaa 5048
||||
Sbjct: 47877046 taaaatattttatgaataaataaaa 47877070

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 48073738 tttttttttaaaaaaaaaaaaaa 48073758

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 1210 ggccttttggctaagatcaag 1230
 |||||||
Sbjct: 48802367 ggccttttggctaagatcaag 48802387

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 49708095 tttttttttaaaaaaaaaaaaaa 49708115

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 137176 tttttttttaaaaaaaaaaaaaa 137195

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaac 5569
 ||||||| |||||
Sbjct: 311354 actttttttttataaaaaaaaaaaaaac 311377

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6492 aattaaaaaatatatattta 6511
|||||||
Sbjct: 999284 aattaaaaaatatatattta 999303

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 1087609 ttttttttaaaaaaaaaaaaaa 1087590

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 1634632 ttttttttaaaaaaaaaaaaaa 1634651

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 1746294 ttttttttaaaaaaaaaaaaaa 1746275

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
|||||||
Sbjct: 1840594 ttttttttaaaaaaaaaaaaaa 1840617

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 2518813 tttttttttaaaaaaaaaaaaaa 2518832

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaa 5565
 ||||||||||||||||||
Sbjct: 2594494 actttttttttaaaaaaaaaaaaa 2594513

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5327 ttttgaaaaaaaaaattataaaaaa 5350
 |||||||||||||||| |||||||
Sbjct: 2975385 ttttgaaaaaaaaaattttaaaaaa 2975408

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 2992171 ttttttttttgttttgtttt 2992190

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5550 tttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||

Sbjct: 3937690 tttttttaaaaaaaaaaaaaaac 3937671

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4881 ttttcttttatttttatttt 4900
|||||
Sbjct: 4300950 ttttcttttatttttatttt 4300969

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggt 1667
|||||
Sbjct: 4352226 cttatcccactaggtggggt 4352245

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtgggggtcggctacatggat 1680
||||| ||||| ||| |||||
Sbjct: 4612038 ttatcctactaggtgaggtcagctacatggat 4612007

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaa 5566
|||||
Sbjct: 4845200 cttttttttaaaaaaaaaaaaa 4845219

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 5210661 tttttttttaaaaaaaaaaaaaa 5210680

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5565
 |||||
Sbjct: 5228462 actttttttttaaaaaaaaaaaaaa 5228443

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1182 tgaatactttttataatcata 1201
 |||||
Sbjct: 5493175 tgaatactttttataatcata 5493194

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattat 5143
 ||||| | |||||
Sbjct: 5749490 aaaaattaattttcacaaaatttattat 5749517

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 ||||| |||||
Sbjct: 5792800 aactttttttttaaaaaaaaaaaaaa 5792777

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||
Sbjct: 6153823 aaaaaaaaaattataaaaaaa 6153804

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5128 ttacaaaattttattatctaaattt 5151
 ||||||| ||||||||||||||||
Sbjct: 7108088 ttacaaattttattatctaaattt 7108111

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 7460 tacaaatcattaaataataacaatt 7483
 |||||||||||||||||| ||||
Sbjct: 8259093 tacaaatcattaaataataaaaatt 8259116

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6292 tttgtatTTTTATTTTTTTT 6311
 ||||||||||||||||||
Sbjct: 8361283 tttgtatTTTTATTTTTTTT 8361264

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 8553177 ttttttttaaaaaaaaaaaaaa 8553158

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5557 aaaaaaaaaaaaaacaagtaataaaa 5580
 |||||
Sbjct: 8797443 aaaaaaaaaaaaaagtaataaaa 8797420

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5556 aaaaaaaaaaaaaacaagtaa 5575
 |||||
Sbjct: 8827191 aaaaaaaaaaaaaacaagtaa 8827210

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5541 attgaacttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 8962136 attgaacttatttttaaaaaataaaaaa 8962109

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5326 tttttgaaaaaaaaaattataaaaaaatg 5353
 |||||
Sbjct: 9072723 tttttaaaaaaaaaattgtaaaaaatg 9072750

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6434 tttgtatttttattttattt 6453
 |||||

Sbjct: 9172514 tttgtatTTTTtattttattt 9172495

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 actTTTTTTTTtaaaaaaaaaa 5565
|||||
Sbjct: 9340553 actTTTTTTTTtaaaaaaaaaa 9340572

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6438 tatTTTTtattttatttgatt 6457
|||||
Sbjct: 9442372 tatTTTTtattttatttgatt 9442353

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5542 ttgaactTTTTTTTTtaaaaaaaaaa 5565
|||||
Sbjct: 10923708 ttgaattTTTTTTTTtaaaaaaaaaa 10923685

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aactTTTTTTTTtaaaaaaaaaa 5564
|||||
Sbjct: 11065931 aactTTTTTTTTtaaaaaaaaaa 11065950

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaacaa 5571
 |||||||
Sbjct: 11107296 tttttttttaaaaaaaataaacia 11107273

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5201 attaattatttttataacataattgatgtatta 5232
 |||| |
Sbjct: 12744625 attatttatttttataacataatttatttatta 12744594

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5336 aaaaattataaaaaaatgaa 5355
 |||||||
Sbjct: 14688978 aaaaattataaaaaaatgaa 14688997

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaa 5564
 |||||||
Sbjct: 14690133 aactttttttttaaaaaaaaaa 14690152

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6286 aaattgtttgatttttatttttt 6309
 |||||||
Sbjct: 17497717 aaattgtttttatttttatttttt 17497694

Score = 40.1 bits (20), Expect = 6.4

Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||
Sbjct: 19739954 ttttttttttgttttgtttt 19739973

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6289 ttgtttgtatttttattttttttg 6312
 ||||||| |||||||||||||
Sbjct: 19933404 ttgtttgttttttattttttttg 19933381

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 ||||||| |||||||||||||
Sbjct: 20635939 aacttttctttaaaaaaaaaaaaaa 20635916

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||
Sbjct: 21816112 ttttttttaaaaaaaaaaaaaa 21816131

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||
Sbjct: 21891177 ttttttttaaaaaaaaaaaaaa 21891196

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 23126815 tttttttttaaaaaaaaaaaaaa 23126834

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaa 5148
 ||||||| ||||| ||||||||||||| ||||
Sbjct: 23226636 aaaattaactgttataaaaatttattatataaa 23226605

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1285 tgatattaaatttattttttt 1304
 ||||||||||||||||||
Sbjct: 23406629 tgatattaaatttattttttt 23406648

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||||| ||||
Sbjct: 24555531 tttttttttaaaaaaaaaaaaagaca 24555508

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 6426 tgaaatcctttgtatttttattttattt 6453
 ||||||||||||||| ||||||| ||||

Sbjct: 25111541 tgaaatcctttgtaattttatttcattt 25111514

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5328 tttgaaaaaaaaattataaaaaaa 5351
 |||||||||||||||| |||||
Sbjct: 26783810 tttgaaaaaaaaattataaaaaaa 26783787

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5536 ttgttattgaactttttttt 5555
 ||||||||||||||||
Sbjct: 27072897 ttgttattgaactttttttt 27072878

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5328 tttgaaaaaaaaattataaa 5347
 ||||||||||||||||
Sbjct: 27245085 tttgaaaaaaaaattataaa 27245104

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6292 tttgtatttttatttttttt 6311
 ||||||||||||||||
Sbjct: 27696495 tttgtatttttatttttttt 27696514

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6539 ttttaaattacaaaatagata 6558
 |||||||
Sbjct: 27721373 ttttaaattacaaaatagata 27721392

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5564
 |||||||
Sbjct: 29598475 aacttttttttaaaaaaaaaa 29598456

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6298 tttttattttttttgttattaatt 6321
 |||||||
Sbjct: 29845108 tttttattttttttgctattaatt 29845131

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5542 ttgaacttttttttaaaaaaaaaa 5565
 |||| |
Sbjct: 30184182 ttgaagttttttttaaaaaaaaaa 30184159

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5328 tttgaaaaaaaaattataaa 5347
 |||||||
Sbjct: 30812813 tttgaaaaaaaaattataaa 30812794

Score = 40.1 bits (20), Expect = 6.4

Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||| |||||
Sbjct: 30863442 tttttttttaaaaaaaaaataaaca 30863419

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6270 tttttgttttgtttttaaaattggt 6293
 |||||||||| |||||||||||||
Sbjct: 32531215 tttttgttttttttttaaaattggt 32531238

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4881 ttttcttttatttttatttt 4900
 |||||||||||||||||||
Sbjct: 33258485 ttttcttttatttttatttt 33258504

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||| |||||
Sbjct: 34187746 tttttttttaaaaaaaaaataaaca 34187769

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5325 atttttgaaaaaaaaaattataaaa 5348
 |||||||||||||||| |||||
Sbjct: 34557276 atttttgaaaaaaaaaattgtaaaa 34557299

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5536 ttgttattgaactttttttt 5555
 ||||||||||||||||||
Sbjct: 35503908 ttgttattgaactttttttt 35503889

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 35914248 ttttttttaaaaaaaaaaaaa 35914267

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||
Sbjct: 36044342 aaaaaaaaaattataaaaaaa 36044323

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
 ||||||| |||||||||||||||
Sbjct: 36741156 ttttttttaaaaaaaaaaaaaa 36741133

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 ||||||||||||||||||

Sbjct: 36741142 tttttttttaaaaaaaaaaaaaa 36741161

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5565
|||||
Sbjct: 36798600 actttttttttaaaaaaaaaaaaaa 36798581

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 38630731 tttttttttaaaaaaaaaaaaaa 38630750

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 39754698 tttttttttaaaaaaaaaaaaaa 39754679

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6955 tgtgcattttttgaaatttg 6974
|||||
Sbjct: 39788075 tgtgcattttttgaaatttg 39788094

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3889 ttgtaaaaatgatttttttt 3908
 ||||||||||||||||||
Sbjct: 41411092 ttgtaaaaatgatttttttt 41411073

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5571
 ||||||| ||||||||||||||
Sbjct: 41962609 tttttttttaaaaaaaaaaaaaa 41962632

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6054 aataataaaaaaaaaattaat 6073
 ||||||||||||||||||
Sbjct: 42113893 aataataaaaaaaaaattaat 42113874

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6074 tatttacccaaaaaattatt 6093
 ||||||||||||||||||
Sbjct: 42544102 tatttacccaaaaaattatt 42544121

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaa 5568
 ||||||| ||||||||||||||
Sbjct: 43006498 aactttttttataaaaaaaaaaaaa 43006521

Score = 40.1 bits (20), Expect = 6.4

Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattatatttat 5036
 |||| ||||||||||||||||||||
Sbjct: 43895524 aataactttttaataaattatatttat 43895501

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5999 aaaaagaaaaaagaaatgca 6018
 ||||||||||||||||||||
Sbjct: 44317471 aaaaagaaaaaagaaatgca 44317490

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 44420122 tttttttaaaaaaaaaaaaaa 44420103

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 ||||||||||||||||||||
Sbjct: 45563774 aaattaaaaaatatatattt 45563755

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5307 aattaatttgtaaaatatat 5326
 ||||||||||||||||||||
Sbjct: 46979010 aattaatttgtaaaatatat 46978991

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 47578766 tttttttttaaaaaaaaaaaaaa 47578747

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 47614750 cttttttttaaaaaaaaaaaaaa 47614731

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 47673414 tttttttttaaaaaaaaaaaaaa 47673395

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4883 ttcttttatttttattttgt 4902
 |||||
Sbjct: 47779491 ttcttttatttttattttgt 47779472

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6487 attgaaattaaaaaatatatattt 6510
 ||||| |||||

Sbjct: 48051218 attgaagttaaaaaatatatattt 48051195

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6576 gaacaaaatatttaaatttgaaat 6599
 ||||||||||||||||||||| ||||
Sbjct: 48152451 gaacaaaatatttaaattttaaat 48152474

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6299 ttttattttttttgttatta 6318
 |||||||||||||||||||||
Sbjct: 48203160 ttttattttttttgttatta 48203179

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5322 tatatttttgaaaaaaaaaat 5341
 |||||||||||||||||||||
Sbjct: 48625308 tatatttttgaaaaaaaaaat 48625327

Score = 40.1 bits (20), Expect = 6.4
Identities = 38/44 (86%)
Strand = Plus / Minus

Query: 2135 tttctcatttcatccatcctgcttgaatgcatgattcacatc 2178
 ||||| |||||||||||| || |||||||| | |||||| |||||
Sbjct: 48912158 tttcttcatttcatccagccagcttgaatcctatgatttacatc 48912115

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 49077532 tttttttttaaaaaaaaaaaaaa 49077513

>[gb|CM000843.1](#)| Glycine max chromosome 10, whole genome shotgun sequence
Length = 50969635

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702 |||||||
Sbjct: 14894252 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
14894311

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762 |||||||
Sbjct: 14894312 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
14894371

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822 |||||||
Sbjct: 14894372 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
14894431

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
1882 |||||||
Sbjct: 14894432 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
14894491

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942 |||||||
Sbjct: 14894492 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
14894551

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002 |||||||
Sbjct: 14894552 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
14894611

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||

Sbjct: 14894612 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
14894671

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 14894672 tttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
14894731

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||

Sbjct: 14894732 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
14894791

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 14894792 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
14894851

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 14894852 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
14894911

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 14894912 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
14894971

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 14894972 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
14895031

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||

Sbjct: 14895032 tctgcaaaaagcatgcatctcggcgctatctcttg 14895066

Score = 1582 bits (798), Expect = 0.0

Identities = 810/814 (99%)
Strand = Plus / Plus

Query: 1644 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
1703

|||||
Sbjct: 25951745 acgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctat
25951804

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctta
1763

|||||
Sbjct: 25951805 caagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctta
25951864

Query: 1764 tagtcctttttgggtcttctctgcctcgaattggttgcttctctccatctgggtctactc
1823

|||||
Sbjct: 25951865 tagtcctttttgggtcttctctgcctcgaattggttgcttctctccatctgggtctactc
25951924

Query: 1824 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
1883

|||||
Sbjct: 25951925 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
25951984

Query: 1884 ccaccatcttctctacaataggcgctactccaaccctctctctaatagttcggtttctaa
1943

|||||
Sbjct: 25951985 ccaccatcttctctacaataggcgctactccaaccctctctctaatagttcggtttctaa
25952044

Query: 1944 ttttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctcgcgtacaccta
2003

|||||
Sbjct: 25952045 ttttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctcgcgtacaccta
25952104

Query: 2004 ctttattctcatgttggtctttgaccgcccacattctgttcggtacaaaatcgccgggtc
2063

|||||
Sbjct: 25952105 ctttattctcatgttggtctttgaccgcccacattctgttcggtacaaaatcgccgggtc
25952164

Query: 2064 ttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataaca
2123

|||||

Sbjct: 25952165 ttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataaca
25952224

Query: 2124 ccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccctt
2183

|||||
Sbjct: 25952225 ccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccctt
25952284

Query: 2184 caatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggga
2243

|||||
Sbjct: 25952285 caatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggga
25952344

Query: 2244 taatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaacttac
2303

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Sbjct: 25952345 taatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaacttac
25952404

Query: 2304 attccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtc
2363

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Sbjct: 25952405 attccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtc
25952464

Query: 2364 tccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcat
2423

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Sbjct: 25952465 tccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcat
25952524

Query: 2424 ctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 25952525 ctgcaaaaagcatgcatctcggcgctatctcttg 25952558

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 21289631 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
21289572

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 21289571 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
21289512

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 21289511 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggttact
21289452

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 21289451 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
21289392

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 21289391 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
21289332

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 21289331 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
21289272

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 21289271 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
21289212

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 21289211 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
21289152

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 21289151 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
21289092

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 21289091 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
21289032

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 21289031 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
21288972

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 21288971 cattccatatactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
21288912

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 21288911 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
21288852

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 21288851 tatgcaaaaagcatgcatctcggcgctatctcttg 21288817

Score = 1576 bits (795), Expect = 0.0
Identities = 807/811 (99%)
Strand = Plus / Plus

Query: 1647 ccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatcaa
1706

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Sbjct: 21345868 ccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatcaa
21345927

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
1766

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Sbjct: 21345928 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
21345987

Query: 1767 tctttttgggtcttctctcgcctcgaattgtttgtcttctctccatctgggtctactctcc
1826

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Query: 2247 tatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaacttacatt
2306

Sbjct: 21346468 tatgggtctcctatccccacacctctgagttagaaaccctccttcttttgttgaacttacatt
21346527

Query: 2307 ccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctcc
2366

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Sbjct: 21346528 ccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctcc
21346587

Query: 2367 aagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctg
2426

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Sbjct: 21346588 aagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctg
21346647

Query: 2427 caaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 21346648 caaaaagcatgcatctcggcgctatctcttg 21346678

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 30847667 aacgccttatcccactaggtggggtcggctacatgaatcaacttccgccataatgttcta
30847726

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 30847727 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
30847786

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 30847787 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
30847846

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 30847847 ctcttactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
30847906

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 30847907 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
30847966

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 30847967 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
30848026

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 30848027 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
30848086

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 30848087 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
30848146

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 30848147 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
30848206

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 30848207 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
30848266

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 30848267 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
30848326

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 30848327 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
30848386

Query: 2363 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 30848387 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
30848446

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 30848447 tctgcaaaaagcatgcatctcagcgctatctcttg 30848481

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 27633537 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
27633596

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 27633597 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
27633656

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 27633657 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
27633716

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
1882

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Sbjct: 27633717 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
27633776

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 27633777 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
27633836

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 27633837 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacaccg
27633896

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 27633897 actctattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
27633956

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 27633957 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
27634016

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 27634017 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
27634076

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 27634077 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
27634136

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 27634137 gtaatatggtctcctattttccacctctgagttagaaaccctcatttcttttgttgaaactta
27634196

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 27634197 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
27634256

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 27634257 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
27634316

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 27634317 tctgcaaaaagcatgcatctcggcgctatctcttg 27634351

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 37705598 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
37705539

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 37705538 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
37705479

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 37705478 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
37705419

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 37705418 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
37705359

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942
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Sbjct: 37705358 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
37705299

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 37705298 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccactacacct
37705239

Query: 2003 actttattctcatggtgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 37705238 actttattctcatggtgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
37705179

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 37705178 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
37705119

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 37705118 actcccgatgcttttctccatttcatccatcctgcttgaatgcaatgattcacatccct
37705059

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 37705058 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
37704999

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 37704998 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
37704939

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 37704938 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
37704879

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 37704878 ctccaagtttctaacctctcattcaactcctccctcgactctccaaggaggactatgtca
37704819

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 37704818 tctgcaaaaagcatgcatctcggcgctatctcttg 37704784

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 29972801 aacgccttatcccattaggtgggggtcggctacatggatcaacttccgccataatgttcta
29972742

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 29972741 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacttctctt
29972682

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

Sbjct: 29972681 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
29972622

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 29972621 ctctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagtctattt
29972562

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

Sbjct: 29972561 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
29972502

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 29972501 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
29972442

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

Sbjct: 29972441 actttattctcatgttgggtcttgaccgcccagcattctgttccgtacaaaatcgccggt
29972382

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

Sbjct: 29972381 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
29972322

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

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Sbjct: 29972321 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
29972262

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 29972261 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
29972202

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 29972201 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
29972142

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 29972141 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
29972082

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 29972081 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
29972022

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 29972021 tctgcaaaaagcatgcatctcggcgctatctcttg 29971987

Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 30438745 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
30438804

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 30438805 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
30438864

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 30438865 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
30438924

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 30438925 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
30438984

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
1942

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Sbjct: 30438985 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttctgtttcta
30439044

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 30439045 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
30439104

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 30439105 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
30439164

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 30439165 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
30439224

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 30439225 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
30439284

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 30439285 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
30439344

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 30439345 ataatatggtctcctattttcacctctgagtttgaaccctccttcttttgttgaactta
 30439404

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 30439405 cattccatataactccgatttggttcggcttaggcgaaagccatgtgtttctagagctcgt
 30439464

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 30439465 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 30439524

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 30439525 tctgcaaaaagcatgcatctcggcgctatctcttg 30439559

Score = 1552 bits (783), Expect = 0.0
 Identities = 807/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 35524186 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 35524245

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 35524246 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
 35524305

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 35524306 atagtctttttgggtcttcctctgcctcgaaatgtttgtcttctctccatctgggtctact
 35524365

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

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Sbjct: 35524366 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
35524425

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 35524426 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
35524485

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 35524486 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
35524545

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 35524546 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
35524605

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 35524606 cttaccgcagtcgataaaaacttttcttagcttgatcggtacctttgcatcacataac
35524665

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 35524666 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
35524725

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

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Sbjct: 35524726 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
35524785

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 35524786 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
35524845

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 35524846 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctaaagctcgt
35524905

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 35524906 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
35524965

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 35524966 tctgcaaaaagcatgcatctcggcgctatctcttg 35525000

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 49316572 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
49316631

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 49316632 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
49316691

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 49316692 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
49316751

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctatatt
1882

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Sbjct: 49316752 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctatatt
49316811

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 49316812 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
49316871

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 49316872 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
49316931

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 49316932 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
49316991

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 49316992 cttatcgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
49317051

Query: 2123 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 49317052 acccccgatgcttttctccatttcacatccatcctgcttgaatgcgatgattcacatcccct
49317111

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 49317112 tcaatttcccatcatcctgtattacagaccaagatatattaacgtgtgacttgaggg
49317171

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 49317172 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
49317231

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 49317232 cattccatataactctgatttgcttctgcttaggcgaaagtcattgtatttctagagctcgt
49317291

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 49317292 ctccaagtttccaatctctcattcaactcctccctcgactctccaaggaggactatgtca
49317351

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 49317352 tctgcaaaaagcatgcatctcggcgctatctcttg 49317386

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 2121614 aacgccttatcccactaggtgggggttggctacatggatcaacttccgccataatgttcta
2121555

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 2121554 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
2121495

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 2121494 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
2121435

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 2121434 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
2121375

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942
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Sbjct: 2121374 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
2121315

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002
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Sbjct: 2121314 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgttacacct
2121255

Query: 2003 actttattctcatgttgggtcttggaccgcccacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 2121254 acttttagtctcatgttggtctttgaccgcccacattctgttcgtaaaaaatcgccggt
 2121195

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 2121194 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2121135

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

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 Sbjct: 2121134 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2121075

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 2121074 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2121015

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
 2302

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 Sbjct: 2121014 ataatatggtctcctattttcacctctgagttagataccctcctacttttggtgaactta
 2120955

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 2120954 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2120895

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 2120894 ctccaagtttccaacctcttattcaactcctccctcgactctccaaggaggactatgtca
 2120835

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 2120834 tctgcaaaaagcatgcatctcggcgctatctcttg 2120800

Score = 1521 bits (767), Expect = 0.0
 Identities = 803/815 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 36929061 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
36929120

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 36929121 tcaagtaccatacttctattcaaattattaagttcgagatcctttttgataacctctctt
36929180

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 36929181 atagtctttttggatcttcctctgcctcgaattgtttgccttctctccatctggtctact
36929240

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 36929241 ctctcactacagagtctaccagtcttctctctacatgcccaaaccacctaagtctattt
36929300

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 36929301 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
36929360

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctcgctacacct
2002

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Sbjct: 36929361 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctcgctacacct
36929420

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 36929421 actttattctcatgttgggtcttgaccggtcaacattctgttcggtacaaaatcgccggt
36929480

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 36929481 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
36929540

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

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Sbjct: 36929541 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
36929600

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 36929601 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
36929660

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 36929661 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttggtgaactta
36929720

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 36929721 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
36929780

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 36929781 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
36929840

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 36929841 tctgcaaaaagcatgcatctcggcgctatctcttg 36929875

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 42270411 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
42270470

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 42270471 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
42270530

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 42270531 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
42270590

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 42270591 ctctcactacagagtctatcggtcttctctctacatgcccaaaccacctaagttctattt
42270650

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 42270651 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
42270710

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 42270711 attttatcctgtcgagtcttaccacacatccacctcagcatcctcatctccgctacacct
42270770

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 42270771 actttattctcctgttgggtctttgaccgccaacattctgttccatacaaaaatcgccgggt
42270830

Query: 2063 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 42270831 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
42270890

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 42270891 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
42270950

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 42270951 tcaatttctccatcatcctgtattacagacccaagatatttaaaccatgtgacttgaggg
42271010

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 42271011 ataatatgggtctcctattttcacctctgagtttgaaaccctccttcttttggtgaactta
42271070

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 42271071 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcat
42271130

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 42271131 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
42271190

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 42271191 tctgcaaaaagcatgcatctcggcgctatctcttg 42271225

Score = 1505 bits (759), Expect = 0.0
Identities = 798/811 (98%)
Strand = Plus / Plus

Query: 1647 ccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatcaa
1706

|||||
Sbjct: 38583141 ccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatcaa
38583200

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
1766

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Sbjct: 38583201 gtaccatacttctatccaaatcattaagtttgagatcctttttataaccttcttatag
38583260

Query: 1767 tctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctactctcc
1826

|||||
Sbjct: 38583261 tctttttgggtcttctctgcctcgaattgtttgtcttctctccatttgggtctactctcc
38583320

Query: 1827 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcca
1886

|||||

Sbjct: 38583321 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcca
38583380

Query: 1887 ccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttctaattt
1946

|||||

Sbjct: 38583381 ccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttctaattt
38583440

Query: 1947 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctactt
2006

|||||

Sbjct: 38583441 tatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctactt
38583500

Query: 2007 tattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggtctta
2066

|||||

Sbjct: 38583501 tattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatgtcggtctta
38583560

Query: 2067 ccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataacaccc
2126

|||||

Sbjct: 38583561 ccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataacaccc
38583620

Query: 2127 ccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
2186

|||||

Sbjct: 38583621 ccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
38583680

Query: 2187 tttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggataa
2246

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Sbjct: 38583681 tttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggataa
38583740

Query: 2247 tatgggtctcctatttttcacctctgagttagaaaccctccttcttttggttgaacttacatt
2306

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Sbjct: 38583741 tatgggtctcctatttttcacctctgagttagaaaccctcatttcttttggttgaacttacatt
38583800

Query: 2307 ccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctcc
2366
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Sbjct: 38583801 ccatataactccgatttgcttctgcttaggtgaaaacccatgtgtttctagagctcgtctcc
38583860

Query: 2367 aagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctg
2426
|||||
Sbjct: 38583861 aagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctg
38583920

Query: 2427 caaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 38583921 caaaaagcatgcatctcggcgctatctcttg 38583951

Score = 1489 bits (751), Expect = 0.0
Identities = 763/767 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 34836175 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
34836234

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 34836235 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
34836294

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 34836295 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
34836354

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882
|||||
Sbjct: 34836355 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
34836414

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 34836415 tccaccatcttctctacaataggcgctactccaaccctcgctctaatagcttcgtttcta
34836474

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 34836475 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
34836534

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 34836535 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
34836594

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 34836595 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
34836654

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 34836655 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
34836714

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 34836715 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
34836774

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||
Sbjct: 34836775 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
34836834

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 34836835 cattccatataactccgatttgcttctgcttaggcgaaagtcattgtgtttctagagctcgt
34836894

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaag 2409
|||||

Sbjct: 34836895 ctccaagtttccaacctctcattcaactcctccctcgactctccaag 34836941

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 45992482 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
45992541

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 45992542 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
45992601

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 45992602 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
45992661

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctattt
1882
|||||
Sbjct: 45992662 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaaggtctattt
45992721

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 45992722 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
45992781

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 45992782 attttatcctgtcgagtcttaccacacatccatcgcaacatcctcatctccgctacacct
45992841

Query: 2003 actttattctcatgttgggtctttgaccgccccaacatttctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 45992842 acttttagtctcatgttgggtctttgaccgccccaacatttctgtaccgtacaaaatcgccgggt
45992901

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 45992902 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
45992961

Query: 2123 acccccgatgcttttctccatttcattcatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 45992962 acccccgatgcttttctccatttcattcatcctgcttgaatgcatgattcacatccct
45993021

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 45993022 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
45993081

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 45993082 ataatatggtctcctattttcacctctgagttagataccctcgtacttttgttgaactta
45993141

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 45993142 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgg
45993201

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 45993202 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
45993261

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 45993262 tctgcaaaaagcatgcatcttggcgctatctcttg 45993296

Score = 1485 bits (749), Expect = 0.0
Identities = 800/817 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 23569824 aacgccttatcccactaggtggggctcggctacatggatcaacttccaccataatgttcta
23569765

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 23569764 tcaagtaccatacttctatcaaaatcattaagttcgagatccttcttgataacctctctt
23569705

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 23569704 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
23569645

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 23569644 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
23569585

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 23569584 tccaccatcttctctataataggcgctactccaaccctctctctaataagcttcgtttcta
23569525

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 23569524 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
23569465

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 23569464 actttagtctcatggttggtctcttgaccgccaacattctgttccatacaaaaatcgccggt
23569405

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 23569404 cttaccgcagtcgataaaaactttccctttaacttgatcggtacctttgcatcacataac
23569345

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 23569344 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
23569285

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 23569284 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
23569225

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 23569224 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
23569165

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 23569164 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
23569105

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 23569104 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
23569045

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttgaa 2459

|||||
Sbjct: 23569044 tctgcaaaaagcatgcatctcgacactatctcttgaa 23569008

Score = 1475 bits (744), Expect = 0.0

Identities = 795/812 (97%)

Strand = Plus / Plus

Query: 1646 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
1705

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Sbjct: 49109437 gccttatcccattaggcgggggtcggctacatggatcaacttccgccataatgttctatca
49109496

Query: 1706 agtaccatacttctatccaaaccatttaatttcgagatcctttttgataacctctcttata
1765

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Sbjct: 49109497 agtaccatacttctatccaaatcatttaagttcagatccttcttgataacctctcttata
49109556

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825

|||||
Sbjct: 49109557 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
49109616

Query: 1826 ctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
1885

|||||
Sbjct: 49109617 ctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
49109676

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttctaatt
1945

|||||
Sbjct: 49109677 accatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttctaatt
49109736

Query: 1946 ttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacctact
2005

|||||
Sbjct: 49109737 ttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacctact
49109796

Query: 2006 ttattctcatgttggtccttgaccgccccaacattctgttcggtacaaaatcgccgggtctt
2065

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Sbjct: 49109797 ttagtctcatgttggtccttgaccgccccaacattctgttcacataaaaatcgccgggtctt
49109856

Query: 2066 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
2125

|||||
Sbjct: 49109857 accgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
49109916

Query: 2126 cccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccccttca
2185

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Sbjct: 49109917 cccgatgcttttctccatttcacatcctgcttgaatgcatgcttcacatccccttca
49109976

Query: 2186 atttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
2245

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Sbjct: 49109977 atttctccatcatcatgtattacagaccaagatatttaaactgtgtgacttgagggata
49110036

Query: 2246 atatggtctcctatccccacactctgagttagaaaccctccttcttttggtgaacttacat
 2305

|||||
 Sbjct: 49110037 atatggtctcctatccccacactctgagttagatatcctcctacttttgtaaacttacat
 49110096

Query: 2306 tccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
 2365

|||||
 Sbjct: 49110097 tccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
 49110156

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
 2425

|||||
 Sbjct: 49110157 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
 49110216

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 49110217 gcaaaaagcatgcatctcggcgctatctcttg 49110248

Score = 1451 bits (732), Expect = 0.0
 Identities = 784/800 (98%), Gaps = 1/800 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 14283078 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcat
 14283019

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 14283018 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 14282959

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 14282958 atagtctttttgggtcttcctctgcctcaaattgtttgccttctctccatctgggtctact
 14282899

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaaggtctatctt
 1882

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Sbjct: 14282898 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
14282839

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 14282838 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
14282779

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 14282778 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
14282719

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 14282718 actttagtctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
14282659

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 14282658 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
14282599

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|
Sbjct: 14282598 a-ccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
14282540

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
2242

|||||
Sbjct: 14282539 tcaatttctctatcatcctgtattacagacccaagatatattaaccggtgtgacttgaggg
14282480

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 14282479 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
14282420

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 14282419 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
14282360

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 14282359 ctccaagtttccaacctctcattcaactcctccctcgactctccaaaggaggactatgtca
14282300

Query: 2423 tctgcaaaaagcatgcatct 2442

|||||
Sbjct: 14282299 tctgcaaaaagcatgcatct 14282280

Score = 1431 bits (722), Expect = 0.0
Identities = 737/742 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 60939 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
60880

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 60879 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
60820

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822

|||||
Sbjct: 60819 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
60760

Query: 1823 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 60759 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
60700

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 60699 tccaccatcttctctacaataggcgctagtccaaccctctctctaatagtctcgtttcta
60640

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 60639 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
60580

Query: 2003 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 60579 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
60520

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 60519 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
60460

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 60459 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
60400

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 60399 tcaatttcccatcatcctgtattacagaccaagatatttaaaccatgtgactagaggg
60340

Query: 2243 ataatatggtctcctattttaccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 60339 ataatatggtctcctattttaccctctgagttagaaactctccttcttttggtgaactta
60280

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 60279 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
60220

Query: 2363 ctccaagtttccaacctctcat 2384

|||||
Sbjct: 60219 ctccaagtttccaacctctcat 60198

Score = 1322 bits (667), Expect = 0.0
Identities = 691/699 (98%)
Strand = Plus / Plus

Query: 1759 tcttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtc
1818

 |||||
Sbjct: 33893269 tcttatagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtc
33893328

Query: 1819 tactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtct
1878

 |||||
Sbjct: 33893329 tactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtct
33893388

Query: 1879 attttcaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggt
1938

 |||||
Sbjct: 33893389 attttcaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggt
33893448

Query: 1939 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
1998

 |||||
Sbjct: 33893449 tctaattttatcctgtcgagtcttaacacacatccaccgcaacatcctcatctccgctac
33893508

Query: 1999 acctactttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgc
2058

 |||||
Sbjct: 33893509 acctactttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgc
33893568

Query: 2059 cgggtcttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcaca
2118

 |||||
Sbjct: 33893569 cgggtcttaccgcagttcgataaaaactttccctttagcttgatcggtacctttgtatcaca
33893628

Query: 2119 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
2178

 |||||
Sbjct: 33893629 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
33893688

Query: 2179 cccttcaatttcccatcatcctgtattacagaccaagatatttaaacggtgtgacttg
2238

 |||||

Sbjct: 33893689 cccttcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttg
33893748

Query: 2239 agggataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaa
2298

|||||
Sbjct: 33893749 agggataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaa
33893808

Query: 2299 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
2358

|||||
Sbjct: 33893809 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
33893868

Query: 2359 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
2418

|||||
Sbjct: 33893869 tcgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactat
33893928

Query: 2419 gtcattctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 33893929 gtcatttgcgaaaaagcatgcatctcggcgctatctcttg 33893967

Score = 1259 bits (635), Expect = 0.0
Identities = 650/655 (99%)
Strand = Plus / Minus

Query: 1803 ttctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgcc
1862

|||||
Sbjct: 50457030 ttctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgcc
50456971

Query: 1863 caaaccacctaagtctattttccaccatcttctctacaataggcgctactccaaccctct
1922

|||||
Sbjct: 50456970 caaaccacataagtctattttccaccatcttctctacaataggcgctactccaaccctct
50456911

Query: 1923 ctctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgcaaca
1982

|||||
Sbjct: 50456910 ctctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccatcgcaaca
50456851

Query: 1983 tcctcatctccgctacacctactttattctcatggttggtctttgaccgccaacattctg
2042

|||||
Sbjct: 50456850 tcctcatctccgctacacctactttattctcatggttggtctttgaccgccaacattctg
50456791

Query: 2043 ttccgtacaaaatcgccggtcttaccgcagtcgataaaaactttccctttagcttgatcg
2102

|||||
Sbjct: 50456790 ttccgtacaaaatcgccggtcttaccgcagtcgataaaaactttccctttagcttgatcg
50456731

Query: 2103 gtacctttgcatcacataacacccccgatgcttttctccatttcacccatcctgcttgaa
2162

|||||
Sbjct: 50456730 gtacctttgcatcacataacacccccgatgcttttctccatttcacccatcctgcttgaa
50456671

Query: 2163 tgcgatgattcacatccccttcaatttcccatcatcctgtattacagacccaagatatt
2222

|||||
Sbjct: 50456670 tgcgatgattcacatccccttcaatttctccatcatcctgtattacagacccaagatatt
50456611

Query: 2223 taaaccgtgtgacttgagggataatatggtctcctattttcacctctgagttagaaaccc
2282

|||||
Sbjct: 50456610 taaaccgtgtgacttgagggataatatggtctcctattttcacctctgagttagaaaccc
50456551

Query: 2283 tccttcttttggtgaacttacattccatatactccgatttgcttctgcttaggcgaaagc
2342

|||||
Sbjct: 50456550 tccttcttttggtgaacttacattccatatactccgatttgcttctgcttaggcgaaaat
50456491

Query: 2343 catgtgtttctagagctcgtctccaagtttccaacctctcattcaactcctccctcgact
2402

|||||
Sbjct: 50456490 catgtgtttctagagctcgtctccaagtttccaacctctcattcaactcctccctcgact
50456431

Query: 2403 ctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 50456430 ctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg
50456376

Score = 1247 bits (629), Expect = 0.0
Identities = 660/669 (98%), Gaps = 1/669 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 5786931 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
5786990

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 5786991 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
5787050

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 5787051 atagtctttttgcgtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
5787110

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 5787111 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
5787170

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942
|||||
Sbjct: 5787171 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
5787230

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 5787231 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
5787290

Query: 2003 actttattctcatgttggtctttgaccgccccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 5787291 actttattctcatgttggtctttgaccgtccaacattctgttccgtacaaaatcgccggt
5787350

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 5787351 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
5787410

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 5787411 accctcgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
5787470

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 5787471 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5787530

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 5787531 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaac-ta
5787589

Query: 2303 cattccata 2311
|||||
Sbjct: 5787590 cattccata 5787598

Score = 1241 bits (626), Expect = 0.0
Identities = 662/674 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 37330654 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgtttta
37330713

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 37330714 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctg
37330773

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 37330774 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
37330833

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 37330834 ctctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagtctattt
37330893

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 37330894 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
37330953

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 37330954 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
37331013

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 37331014 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccgat
37331073

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 37331074 cttaccgcagtcgataaaaactttccctttagcttgatcagttacctttgcatcacataac
37331133

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 37331134 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgagtcacatcccct
37331193

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 37331194 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
37331253

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 37331254 ataatatagttctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
37331313

Query: 2303 cattccatatactc 2316
|||||||
Sbjct: 37331314 cattccatatactc 37331327

Score = 1110 bits (560), Expect = 0.0
Identities = 581/588 (98%)
Strand = Plus / Plus

Query: 1870 cctaagtcctatccccaccatcttctctacaataggcgctactccaaccctctctcta
1929
|||||||
Sbjct: 34925335 cctaagtcctatccccaccatcttctctacaataggcgctactccaaccctctctcta
34925394

Query: 1930 agcttcggtttctaattttatcctgtcgagtcctaccacacatccaccgcaacatcctcat
1989
|||||
Sbjct: 34925395 agcttcggtttctaattttatcctgtcgagtcctaccacacatccaccgcaacatcctcat
34925454

Query: 1990 ctccgctacacctaactttattctcatgttggtcttgaccgccccaacattctgttcgta
2049
|||||||
Sbjct: 34925455 ctccgctacacctaacttttagtctcatgttggtcttgaccgccccaacattctgttcgta
34925514

Query: 2050 caaaatcgccggtcttaccgcagtcgcataaaaactttcccttttagcttgatcggtacctt
2109
|||||
Sbjct: 34925515 caaaatcgccggtcttaccgcagtcgcataaaaactttcccttttagcttgatcggtacctt
34925574

Query: 2110 tgcatacacataacacccccgatgcttttctccatttcacatcctgcttgaatgcgatg
2169
|||||||
Sbjct: 34925575 tgcatacacataacacccccgatgcttttctccatttcacatcctgcttgaatgcgatg
34925634

Query: 2170 attcacatcccccttcaatttccccatcatcctgtattacagaccaagatatttaaaccg
2229
|||||||
Sbjct: 34925635 attcacatcccccttcaatttctccatcatcctgtattacagaccaagatatttaaaccg
34925694

Query: 2230 tgtgacttgagggataatatggtctcctattttcacctctgagttagaaaccctccttct
2289

|||||
Sbjct: 34925695 tgtgacttgagggataaatatggtctcctattttcacctctgagttagataccctcctact
34925754

Query: 2290 tttgttgaacttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgt
2349

|||||
Sbjct: 34925755 tttgttgaacttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgt
34925814

Query: 2350 ttctagagctcgtctccaagtttccaacctctcattcaactcctccctcgactctccaag
2409

|||||
Sbjct: 34925815 ttctagagctcgtctccaagtttccaacctctcattcaactcctccctcgactctccaag
34925874

Query: 2410 gaggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 34925875 gaggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg 34925922

Score = 1017 bits (513), Expect = 0.0
Identities = 537/545 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 50841891 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
50841832

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 50841831 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctcta
50841772

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 50841771 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
50841712

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 50841711 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
50841652

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 50841651 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
50841592

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 50841591 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
50841532

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 50841531 actttagtctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
50841472

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 50841471 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
50841412

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 50841411 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
50841352

Query: 2183 tcaat 2187

|||||
Sbjct: 50841351 tcaat 50841347

Score = 952 bits (480), Expect = 0.0
Identities = 501/508 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 21070254 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
21070313

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

|||||
Sbjct: 21070314 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataaacctctctt
21070373

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 21070374 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
21070433

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 21070434 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
21070493

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 21070494 tccaccatcttctctacaataggcgctactccaactctccctctaatagtctcgttttta
21070553

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 21070554 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
21070613

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccgggt
2062

|||||
Sbjct: 21070614 actttattctcatgttagctcttgaccgccaacattctgttcggtacaaaatcgccgggt
21070673

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 21070674 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
21070733

Query: 2123 acccccgatgcttttctccatttcatcc 2150
|||||
Sbjct: 21070734 acccccgatgcttttctccatttcatcc 21070761

Score = 944 bits (476), Expect = 0.0

Identities = 515/528 (97%), Gaps = 5/528 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 45780019 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
45779960

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 45779959 tcaagtactatatttctatccaaaccattaatttcgagatcctttttgataacctct---
45779903

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 45779902 --agtctttttgggtcttctctgacctgaattgtttgtcttctctccatctggtctatc
45779845

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcatttt
1882

|||||
Sbjct: 45779844 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcatttt
45779785

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgttttcta
1942

|||||
Sbjct: 45779784 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgttttcta
45779725

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 45779724 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45779665

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

|||||
Sbjct: 45779664 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
45779605

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||

Query: 2003 actttattctcatggttggtccttgaccgcccacattctgttccgtacaaaatcgccggt
2062
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 35670016 actttattctcatggttggtccttgaccgcccagcattctgttccgtacaaaatcgccggt
35669957

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 35669956 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
35669897

Query: 2123 acccc 2127
 |||||
Sbjct: 35669896 acccc 35669892

Score = 868 bits (438), Expect = 0.0
Identities = 468/478 (97%)
Strand = Plus / Plus

Query: 1980 acatcctcatctccgctacacctaactttattctcatggttggtccttgaccgcccacatt
2039
 |||||| |||||| |||||||||||||| ||||||||||||||||||||||||||
Sbjct: 2282118 acatccacatctccactacacctaacttttagtctcatggttggtccttgaccgcccacatt
2282177

Query: 2040 ctgttccgtacaaaatcgccggtcttaccgcagtcgataaaaactttcccttttagcttga
2099
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2282178 ctgttccgtacaaaatcgccggtcttaccgcagtcgataaaaactttcccttttagcttga
2282237

Query: 2100 tcggtacctttgcatcacataacacccccgatgcttttctccatttcacccatcctgctt
2159
 |||||||||||||||||||||||||||||||||||||| ||||||||||||||||||
Sbjct: 2282238 tcggtacctttgcatcacataacacccccgatgcttttctccatttcacccatcctgctt
2282297

Query: 2160 gaatgcatgattcacatccccttcaatttcccatcatcctgtattacagacccaagat
2219
 |||||||||||||||||||||||||||||||||| ||||||||||||||||||
Sbjct: 2282298 gaatgcatgattcacatccccttcaatttctccatcatcctgtattacagacccaagat
2282357

Query: 2220 atttaaaccgtgtgacttgagggataatatgggtctcctattttcacctctgagttagaaa
2279

|||||
 Sbjct: 2282358 atttaaaccgtgtgacttgaggaataatatgggtctcctattttcacctctgagttagata
 2282417

Query: 2280 ccctccttcttttgttgaacttacattccatataactccgatttgcttctgcttaggcgaa
 2339

|||||
 Sbjct: 2282418 ccctcctacttttgttgaacttacattccatataactccgatttgcttctgcttaggcgaa
 2282477

Query: 2340 agccatgtgtttctagagctcgtctccaagtttccaacctctcattcaactcctccctcg
 2399

|||||
 Sbjct: 2282478 agccatgtgtttctagagctcgtctccaagtttccaacctctcattcaactcctccctcg
 2282537

Query: 2400 actctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatctcttg
 2457

|||||
 Sbjct: 2282538 actctccaaggaggactatgtcatctgcaaatagcatgcatctcggcgctatcgcttg
 2282595

Score = 724 bits (365), Expect = 0.0
 Identities = 371/373 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 14400393 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 14400452

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
 1762

|||||
 Sbjct: 14400453 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataaacctctctt
 14400512

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 14400513 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 14400572

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaaggtctattt
 1882

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Sbjct: 14400573 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
14400632

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 14400633 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
14400692

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 14400693 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
14400752

Query: 2003 actttatttctcat 2015

|||||
Sbjct: 14400753 actttatttctcat 14400765

Score = 724 bits (365), Expect = 0.0
Identities = 368/369 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 25847660 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
25847719

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 25847720 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
25847779

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 25847780 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
25847839

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

|||||
Sbjct: 25847840 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
25847899

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
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Sbjct: 25847900 tccaccatcttttctacaataggcgctactccaaccctctctctaatagcttcgtttcta
25847959

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 ||||||||||| ||||||||||||||||||||||||||||||||||||||||
Sbjct: 25847960 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
25848019

Query: 2003 actttattc 2011
 |||||||||
Sbjct: 25848020 actttattc 25848028

Score = 664 bits (335), Expect = 0.0
Identities = 362/371 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||| ||||||||||||||||||||||||||||||||||||||||
Sbjct: 2987775 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
2987716

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 2987715 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataatctctctt
2987656

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822
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Sbjct: 2987655 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
2987596

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
 ||||||||||| ||||||||||||||||||||||||||||||||||||||||
Sbjct: 2987595 ctctcactacagagtctaccggttttctctctacatgcccaaaccacctaagtctattt
2987536

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 2987535 tccaccatcttctctacaataggcggttactccaaccctctctctaataagctccggttctta
2987476

Query: 1943 attttatcctgtcgcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 2987475 attttatcctgtccgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2987416

Query: 2003 actttattctc 2013

|||||
Sbjct: 2987415 actttattctc 2987405

Score = 581 bits (293), Expect = e-163
Identities = 323/333 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 2281793 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
2281852

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 2281853 tcaagtaccatacttctatccaaatcattaagttcgagatctttcttgataacctctctt
2281912

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822

|||||
Sbjct: 2281913 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
2281972

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 2281973 ctctcactacagagtctactgggtcttctctctacatgcccaaaccacctaagtctattt
2282032

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttctta
1942

|||||
Sbjct: 2282033 ttcaccatcttctctacaataggcgctactctaaccctctctctaataagctccatttcta
2282092

Query: 1943 attttatcctgtcgagtccttaccacacatccac 1975
|||||
Sbjct: 2282093 attttatcctgtcgagtccttaccacacatccac 2282125

Score = 547 bits (276), Expect = e-152
Identities = 297/304 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 7600656 aacgccttatcccactaggtgaggtcggctacatggatcaacttccgccataatgttcta
7600715

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
1762
|||||
Sbjct: 7600716 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
7600775

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 7600776 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
7600835

Query: 1823 ctctctactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 7600836 ctctctactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
7600895

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttcta
1942
|||||
Sbjct: 7600896 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttacta
7600955

Query: 1943 attt 1946
|||
Sbjct: 7600956 attt 7600959

Score = 547 bits (276), Expect = e-152

Identities = 294/300 (98%)
Strand = Plus / Minus

Query: 1878 tattttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgt
1937

 |||||
Sbjct: 49787102 tattttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgt
49787043

Query: 1938 ttctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgcta
1997

 |||||
Sbjct: 49787042 ttctaattttatcctgtcgagtcttaccacacatccaccgtaacatcctcatctctgcta
49786983

Query: 1998 cacctactttattctcatgttggtcttgaccgccaacattctgttcggtacaaaatcg
2057

 |||||
Sbjct: 49786982 cacctactttagtctcatgttggtcttgaccgccaacattctgttcggtacaaaatcg
49786923

Query: 2058 ccggtcttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcac
2117

 || |||||
Sbjct: 49786922 cctgtcttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcac
49786863

Query: 2118 ataacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacat
2177

 ||||| |||||
Sbjct: 49786862 ataacatccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacat
49786803

Score = 543 bits (274), Expect = e-151
Identities = 283/286 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

 |||||
Sbjct: 5109380 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
5109439

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

 |||||

Sbjct: 5109440 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
 5109499

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 5109500 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 5109559

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
 1882

|||||
 Sbjct: 5109560 ctctcactacagagtctatcggtcttctctctacatgcccaaaccacctaagtctatatt
 5109619

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaa 1928

|||||
 Sbjct: 5109620 tccaccatcttctctacaataggcgctactccaaccctctctctaa 5109665

Score = 541 bits (273), Expect = e-151
 Identities = 285/289 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 42074116 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 42074175

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 42074176 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 42074235

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 42074236 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 42074295

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
 1882

|||||
 Sbjct: 42074296 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
 42074355

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 13328530 aacgccttatccactaggtggggtcgtctacatggatcaacttccgccataatgttcta
 13328471

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 13328470 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 13328411

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 13328410 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 13328351

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
 1882

|||||
 Sbjct: 13328350 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
 13328291

Query: 1883 tccaccatcttctctacaataggcgcta 1910

|||||
 Sbjct: 13328290 tccaccatcttctctacaataggcgcta 13328263

Score = 482 bits (243), Expect = e-133
 Identities = 255/259 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 43919651 aacgccttatccactaggtgtgggtcggctacatggatcaacttccgccataatgttcta
 43919710

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 43919711 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 43919770

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 43919771 atagtctttttgggtcttcctctgcctcgaattgtttatcttctctccatctgggtctact
 43919830

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 43919831 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
43919890

Query: 1883 tccaccatcttctctataaa 1901
|||||
Sbjct: 43919891 tccaccatcttctataaa 43919909

Score = 454 bits (229), Expect = e-124
Identities = 238/241 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 46534983 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
46534924

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 46534923 tcaagtatcatacttctatccaaaccattaatttcgagatcattttttataacctctctt
46534864

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 46534863 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
46534804

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 46534803 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
46534744

Query: 1883 t 1883
|
Sbjct: 46534743 t 46534743

Score = 432 bits (218), Expect = e-118
Identities = 233/238 (97%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 9795706 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
9795765

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 9795766 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
9795825

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 9795826 atagtctttttgggtcttcctctgtctcgaattgtttgccttctctccatctgggtctact
9795885

Query: 1823 ctctctactacagagtctaccggtcttctctctacatgcccacacctaagtctat
1880

|||||
Sbjct: 9795886 ctctctactacagagtctaccggtcttctctctacatgcccacacctaagtctat
9795943

Score = 428 bits (216), Expect = e-117
Identities = 228/232 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 33701304 aacgccttatcccactaggtgggggtcggctacatggatcaacttccaccataatgttcta
33701363

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 33701364 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
33701423

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 33701424 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
33701483

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaa 1874
 ||||| ||||||||||||||||||||||||||||||||||||||||
Sbjct: 33701484 ctcttactacagagtctaccggtcttctctctacatgcccaaaccacctaa 33701535

Score = 422 bits (213), Expect = e-115
Identities = 228/233 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||||||||
Sbjct: 34920838 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcaa
34920897

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 34920898 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
34920957

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822
 |||||||||||||||||||||||||||||||||||| |||||||
Sbjct: 34920958 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
34921017

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaag 1875
 ||||||||||||||||||||||||||||||||||||||||
Sbjct: 34921018 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaag
34921070

Score = 396 bits (200), Expect = e-107
Identities = 206/208 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||||||||||||||||||||||||||||||||||| |||||||
Sbjct: 2348324 aacgccttatcccactaggtggggtcggctacatggatcaacttccgtcataatgttcta
2348383

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 2348384 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
2348443

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 2348444 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
2348503

Query: 1823 ctctcactacagagtctaccggtcttc 1850
|||||
Sbjct: 2348504 ctctcactacagagtctaccggtcttc 2348531

Score = 393 bits (198), Expect = e-106
Identities = 213/218 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatggttcta
1702
|||||
Sbjct: 31738788 aacgccttatcccactaggtgggatcggtacatggatcaacttccgccataatggttcta
31738729

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 31738728 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
31738669

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 31738668 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
31738609

Query: 1823 ctctcactacagagtctaccggtcttctctctacatg 1860
|||||
Sbjct: 31738608 ctctcactacagagtctaccggtcttctctctacatg 31738571

Score = 283 bits (143), Expect = 2e-73
Identities = 318/371 (85%), Gaps = 9/371 (2%)
Strand = Plus / Minus

Query: 6300 tttatTTTTTTTgttattaattgtctatatttggttctgttttaaattgaaaacaatatt
6359

||||| | ||||||| ||||||| || || ||||| || |||||
Sbjct: 4747802 tttatTTTctgtgttattaattgtctatatttatatttggttttaa--aaatattatt
4747745

Query: 6360 atttttcatatggttgtaattcttaat-ttcttatgcatatTTTatgTTTTatcattttt
6418

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Sbjct: 4747744 attttgcatatggttggtg----ttaatatTTTTtgcatatTTTatggTTTatcattttt
4747689

Query: 6419 taagagttgaaa-tcctttgtattttt-atTTTatttgattattataatacataaTtaa
6476

||||| || | ||||||| ||||||| ||||||| ||||||| ||
Sbjct: 4747688 gaagagttaaaaatatTTTgtattTTTcattttatttgattattaaaatacataaatcaat
4747629

Query: 6477 caacaacttaattgaaattaaaaaatatatTTTaactgacaagttgacttgaactaaaa
6536

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Sbjct: 4747628 caacaacttaattgaaattTTTaaaaaaatatTTaatcaacaagttgaattgaactaaaa
4747569

Query: 6537 tattTaaattacaaaatagatatgaaattacaaacaatagaacaaaatatTTaaatttga
6596

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Sbjct: 4747568 tattTaaattacaaaataaatagaaaattataaacaatatacaaaatatTTaaattcga
4747509

Query: 6597 aataatacaacaaaaattTTTaaaatacaacaatatggcataaaattaatgTTgTTggcc
6656

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Sbjct: 4747508 aataatacgacaaaattTTTaaaatacaacaatatgacataaaacttaacattattggtt
4747449

Query: 6657 tgagcctacac 6667

|||||||||
Sbjct: 4747448 tgagcctacac 4747438

Score = 276 bits (139), Expect = 6e-71
Identities = 148/151 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgTTcta
1702

||||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||

Sbjct: 48430616 aacgccttatcccactaggtgggggtcggctacatagatcaacttccgccataatgttcta
48430675

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 48430676 tcaagtaccatacttctatccaaaccattaatttcgaaatccttttttataacctctctt
48430735

Query: 1763 atagtctttttgggtcttcctctgcctcgaa 1793

|||||
Sbjct: 48430736 atagtctttttgggtcttcctctgcctcgaa 48430766

Score = 246 bits (124), Expect = 5e-62
Identities = 133/136 (97%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
1705

|||||
Sbjct: 49481542 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
49481483

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

|||||
Sbjct: 49481482 agtaccatacttctatccaaatcattaagttcagatcctttttgataacctctcttata
49481423

Query: 1766 gtctttttgggtcttc 1781

|||||
Sbjct: 49481422 gtctttttgggtcttc 49481407

Score = 244 bits (123), Expect = 2e-61
Identities = 219/250 (87%), Gaps = 2/250 (0%)
Strand = Plus / Minus

Query: 7419 aaacaccagtgataacaacaatgaacaacacacatgacaactacaaatcattaaataata
7478

|||||
Sbjct: 18372763 aaacactcagtaataacaacaacgaacaacacgcatgacaactacaaatcattaaataata
18372704

Sbjct: 50236741 ccacacgatattaaattttatTTTTgaaggggagatcccaatgcagtagcttgctact-g
50236799

Query: 1340 gggttcttaagcgtagcctgtgtcttgactactgcatgggcctggcgccacccta 1394
||||| ||||| | | || ||||| ||||| ||||| ||||| |||||
Sbjct: 50236800 gggttctcaagcgtcgtccttgttttgactatagcatgggcctggcgccacccta
50236854

Score = 216 bits (109), Expect = 5e-53
Identities = 274/328 (83%), Gaps = 2/328 (0%)
Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490
||||| ||||| || ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39519945 atacaacaatgaaaaatacatatgacggctacaaatcatttaataataaaaataaaaatca
39520004

Query: 7491 aataatttggggaggggg--tcttcaaaacttgattcaagggtcattgtatcatcgaggt
7548
||||| | ||||| | | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39520005 aataaataggggagagaggttcttcgaaactcaattcaatgttcattgcttcattgaggt
39520064

Query: 7549 attcaccctaaaccctccaaattcaaagagcttgacagaaactgggtgggtggttgcatatg
7608
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39520065 attcatccaaaccctccaaattcaaagagcttgcatagattgggtgggtggttgcacacatg
39520124

Query: 7609 tttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagagtt
7668
|| || | ||||| ||| | ||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39520125 ttcgtgcgagtggtgtctgcggcggttaatatataactcaaagcatgtgaggttggagagtt
39520184

Query: 7669 tcccaaataatagaaaacatagtaattatttcctcatcatcttgacagcatacatgcctgt
7728
|| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39520185 tcatgaataatagaaaacatagtaattatgtcctcatcatcttgacagtatgcatgcctcat
39520244

Query: 7729 actgaaaacaatcaccaacaatgatac 7756
|||| ||||| ||||| ||||| |||||
Sbjct: 39520245 actggccacaatcaacaacaatgatac 39520272

Score = 216 bits (109), Expect = 5e-53
Identities = 223/258 (86%), Gaps = 16/258 (6%)
Strand = Plus / Plus

Query: 746 atcatatgggttttgttttgtgactgaattgtggcaatgtaacacctggactttttcacaa
805
|||||
Sbjct: 50236004 atcatatgggttttgttttgtgactgaattgtgacaacgtaacacctggactttttcacaa
50236063

Query: 806 ctattgtataaatccagtatatctcacgtgaatctgaaattagtagcatgcttaacatat
865
|||||
Sbjct: 50236064 ctattgtatagatccagtatatctaagtgaatatgaa---agtagcatgcttaacatat
50236120

Query: 866 ----aagtatcgatttatctaatac---agtttccatatatttatgaaaactgcactgttgaa
918
| ||||
Sbjct: 50236121 attaatgtat-gatgtatttaatacatcagtttccatatctatgaaaacagcactgttgaa
50236179

Query: 919 aattgtgcaagcttaacatacaagtaatgtaatccacagtacgaaaaatgtgcaggttct
978
|||||
Sbjct: 50236180 gattgtgtaagggttaacata-----aatgtattctacagtacgaaaaatgagcaggatct
50236234

Query: 979 tatttgtgctccataatt 996
|||
Sbjct: 50236235 tatctgtgctccataatt 50236252

Score = 214 bits (108), Expect = 2e-52
Identities = 111/112 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 12206951 aacgccttatcccactaggtggggctcggctacatggatcagcttccgccataatgttcta
12206892

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataa 1754
|||||
Sbjct: 12206891 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataa 12206840

Score = 206 bits (104), Expect = 5e-50
Identities = 119/124 (95%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 21378944 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
21379003

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 21379004 tcaagtaccatacttttatccaaatcattaagttcgagatctttcttgataacctctctt
21379063

Query: 1763 atag 1766

||||
Sbjct: 21379064 atag 21379067

Score = 200 bits (101), Expect = 3e-48
Identities = 271/327 (82%), Gaps = 3/327 (0%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
6737

|||||
Sbjct: 4747406 atgcgacacataaaacatcattttgggttaacttgattctcgatatccattttgatgtgt
4747347

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797

||| ||||| |||| |||||
Sbjct: 4747346 ataggagaggggacacgacaacctttaaaatttcttttcatttttgggtcatgacaaatt
4747287

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857

|||| ||||| ||| ||| | |||| |||| |||| ||| |||| | |
Sbjct: 4747286 cttgacttgtgacacaatgatcaatacgttctttgcgcaattcgtcaaataatcctctt
4747227

Query: 6858 tacatgttatagatacttttcagcgatatacacaagatgtatgtagttcctatactcatgg
6917

|||||| | | |||| | | ||||| |||| ||||| |||||
Sbjct: 4747226 tacatgttggatacactttccaatgtatacacatgatgtttgtagttcctatactcatgg
4747167

Query: 6918 tgagcatgcttata---aacaacaacatgagaacaaaacatgtgcattttttgaaatttg
6974

||| | ||||| | ||||| |||| | | | ||||| |||||

Sbjct: 4747166 tgaacgtgcttataagtagcaacaacatgaaaacaagatatatacacttttttgaaatttg
4747107

Query: 6975 tcacagtcacactacctttcatctagc 7001
|||| ||| |||||||||||| ||||
Sbjct: 4747106 tcactatcatactacctttcatttagc 4747080

Score = 196 bits (99), Expect = 5e-47
Identities = 165/185 (89%), Gaps = 4/185 (2%)
Strand = Plus / Minus

Query: 6485 taattgaaattaaaaa---atatatatttaactgacaagttgacttgaactaaaatattt
6541
|||||||||||||||| |||||||||||||| |||||||| ||| ||||||||||||||
Sbjct: 6820148 taattgaaattaaaaatatatatatatttaaccatcaagttgaattggactaaaatattt
6820089

Query: 6542 aaattacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataa
6601
|||||||||||||||| |||| |||||||||||||| |||||||||||||||||| |||| ||
Sbjct: 6820088 aaattacaaaatatatataaaaattacaaacgatagaacaaaatatttaaatttgaatcaa
6820029

Query: 6602 tacaacaaaaatttttaaaatacaacaatatggcataaaattaatggttggtggcctgagc
6661
|| |||||||||||||||||||||| |||||| |||||| |||||||||| |||| | |||
Sbjct: 6820028 ta-aacaaaaatttttaaaatacaagaatatgacataaatttaatggttggtggcttaagc
6819970

Query: 6662 ctaca 6666
||||
Sbjct: 6819969 ctaca 6819965

Score = 196 bits (99), Expect = 5e-47
Identities = 273/329 (82%), Gaps = 4/329 (1%)
Strand = Plus / Plus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737
|||||||||||| ||| ||| |||||| | | | |||||||||||||||||| ||||
Sbjct: 41395975 atgcgacacatagaatatctttttggctaattccaattcttggatatccattttggtatgt
41396034

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttggggtggggcaaatt
6797

Sbjct: 41396035 atacgagaggagacaggacgacctttagaatttcttttcattcttcgggtcggggcagatt
41396094

Query: 6798 cttggcttgtagacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857

Sbjct: 41396095 cttggctcatgagatagtggtcaatatgtttcgttgcgcaattcaacaacaatcttctg
41396154

Query: 6858 tacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctataactcatgg
6917

Sbjct: 41396155 tacacattagagacactttttcaatgtatacacatgatgtatgtagttcctataactgatgg
41396214

Query: 6918 tgagcatgcttataaacaac---aacatgagaacaaaacatgtgcattttttgaaatttg
6974

Sbjct: 41396215 tgaacatgcttacaagcagcagtaacatgag-acaaggcatgtgcaattttttagaatttg
41396273

Query: 6975 tcacagtcacactacctttcatctagctt 7003

Sbjct: 41396274 tcatagtcacaccacccttcatctagctt 41396302

Score = 196 bits (99), Expect = 5e-47
Identities = 201/235 (85%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatag
5175

Sbjct: 49147567 aaaaattaattgtcacaaaatttattatctaaatttgcattgcacaataaatatacatag
49147626

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

Sbjct: 49147627 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
49147686

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggt
5295

||||| ||||| | ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 49147687 cagttgattagagtgtcatgttaataacacgaaagtcacatgttaaatttctgtttggat
49147746

Query: 5296 cattaattttaaatataatttgtaaaatatatTTTTGAAAAAAAAATTATAAAAAA 5350
||||||| ||||||| ||||||| ||||||| ||| |||||
Sbjct: 49147747 cattaatttcaaattaattcgtaaaatatatTTTTGAAAAAAAAATTATAAAAAA
49147801

Score = 190 bits (96), Expect = 3e-45
Identities = 300/363 (82%), Gaps = 5/363 (1%)
Strand = Plus / Plus

Query: 6932 aacaacaacatgagaacaaaacatgtgcattTTTTGAAATTGTGACAGTCACACTACCT
6991
||||||| ||||||| ||||||| | ||||| ||||||| | |||||||
Sbjct: 39516099 aacaacaacatgagaacaatacatgtgtaattTTTTGGAATTGTGCATATCCACTACCT
39516158

Query: 6992 ttcacttagcttgaccatgaaatttctcactagttgaatctctctctccagttaattgtc
7051
|| ||| ||| | | ||||||| | | ||| | | | || ||| ||||||| ||
Sbjct: 39516159 tttatccagcctaatacgtgaaatttat-agtaggtcaaac-ctttctc-agttaattatc
39516215

Query: 7052 tcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcc
7111
|||| ||||| ||| ||||||| ||| ||||||| ||||||| || |||||||
Sbjct: 39516216 tcctggactaataatcgtatgtcacatcaatcgaactccagaacaatgtaagtgttgcc
39516275

Query: 7112 tttttctgtatgtctttcatagccttggttaataacttttgataaaacttcaccaaagtga
7171
||| ||||| ||||||| ||||||| ||||| ||||||| ||| |||||
Sbjct: 39516276 tttatctgtgcatctttcatgatcttggttagtacttgcgataaaacttgactagatgta
39516335

Query: 7172 atcactcttgcgacttctctcccccttggttgaacaatgcattacacctagtataggtt
7231
| || | ||| ||||||| || ||||||| ||||||| ||||||| ||||| |||
Sbjct: 39516336 agcattgttggtgacttctcttctcttggttgaacaatgcattacaccttatatatgtt
39516395

Query: 7232 gattttaccaa--cacacattgccagattttgtgttttcttgagtaccaaattaattaac
7289
| ||||||| ||| ||| ||||||| ||||||| ||| ||||||| |||
Sbjct: 39516396 ggttttaccaatgcacttatttgagattttgtgttttcttggttatcaaattaatcaac
39516455

Query: 7290 tca 7292
|||
Sbjct: 39516456 tca 39516458

Score = 186 bits (94), Expect = 4e-44
Identities = 165/185 (89%), Gaps = 4/185 (2%)
Strand = Plus / Plus

Query: 6449 tatttgattattataataacataattaacaacaacttaattgaaattaaaaaatatatat
6508
|||||
Sbjct: 40458885 tatttgattattaaaaatatataattaatcaacaaattaattaaaattaaaaaa-atatat
40458943

Query: 6509 ttaactgacaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattaca
6568
|||||
Sbjct: 40458944 ttaaccaacattttgaattaaactaaaatatttaaattacaaaatagatatataaaatcaca
40459003

Query: 6569 aacaatagaacaaaatatttaaatttgaaataataacaacaaaaattttaaaatacaaaaca
6628
|||||
Sbjct: 40459004 aacaatagaacaaaatatttaaattt-aaataataca--gtaaattttaaaatacaaaaa
40459060

Query: 6629 atatg 6633
|||||
Sbjct: 40459061 atatg 40459065

Score = 184 bits (93), Expect = 2e-43
Identities = 201/234 (85%), Gaps = 6/234 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||
Sbjct: 29957413 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattaga
29957472

Query: 5177 aattt-tagtgttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
|||||

Sbjct: 42599669 aatttttagtggttacatatagtgatattaattattttataataattgggtctattaattt
42599610

Query: 1192 tataatcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcag
1251
||| |

Sbjct: 45568616 tatactcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcag
45568557

Query: 1252 tttaatatctgatatgtggggtcattggcccacatgatattaaatt 1296
 |||||
Sbjct: 45568556 tttaatatctgatatgtggggtcattgggtccacacgatattaaatt 45568512

Score = 176 bits (89), Expect = 4e-41
Identities = 104/109 (95%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256
 |||||
Sbjct: 45596422 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
45596481

Query: 1257 tatctgatatgtggggtcattggcccacatgatattaaattttttttg 1305
 |||||
Sbjct: 45596482 tatctgatatgtggggtcattgggtccacacgatattaaattactttttttg 45596530

Score = 172 bits (87), Expect = 7e-40
Identities = 90/91 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 6329321 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
6329380

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733
 |||||
Sbjct: 6329381 tcaagtaccatacttctatccaaatcattaa 6329411

Score = 172 bits (87), Expect = 7e-40
Identities = 189/223 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
 |||||

Sbjct: 16384252 aaaattaattggcacaaaatttattattttaatttacatgcgcattaaatatacattaaa
 16384311

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 16384312 aatttttagtggttatataatacaaaattatttattttataacataattaagatattaattc
 16384371

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgatc
 5296

|||||
 Sbjct: 16384372 agttggtagagtgtcatgctaataacttgaaagttacagattcgactcctacttgagcc
 16384431

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttgaaaaaaa 5339

|||||
 Sbjct: 16384432 attaatTTTaaattaatttataaaaacatatatttttgaaaaaaa 16384474

Score = 172 bits (87), Expect = 7e-40
 Identities = 138/155 (89%)
 Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattttaactgacaagttgacttgaactaaaatatttaaattacaa
 6550

|||||
 Sbjct: 21077727 aaattaaaaaaaagatatgtaaccaacaagttaaattgaactaaaatatttaaattacca
 21077786

Query: 6551 aatagatatgaaattacaaacaatagaacaaaatattttaatttgaaataatacaacaaa
 6610

||||
 Sbjct: 21077787 aatatatataaaattacaaacaatataacaaaatattttaatttgaaacaatacaacaaa
 21077846

Query: 6611 aattttaaaatacaaaacaatatggcataaaattaa 6645

|
 Sbjct: 21077847 atattttaaaatacaaaagaatatgacataaatttaa 21077881

Score = 170 bits (86), Expect = 3e-39
 Identities = 149/169 (88%), Gaps = 2/169 (1%)
 Strand = Plus / Minus

```
Query: 5177      aat ttt agt gtt ata ttt agt gaa att aatt at ttt tata acata att gat gt att agt tc  
5236            | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 16384061 aat ttt att gtt ata ta ta aca ac att att ttt at ttt tata at ata att gg t ct att ag ct  
16384002
```

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 16384001 agttggtagagtgtcgtgttaataatgcgaaaatcatatgtttcactcttgcttggacc
16383942

Query: 5297 attaattttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaa 5351

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 16383941 attaattttaaattaattcataaaacatatatttttgaaaacaaaattataaaaaa
16383887

Score = 165 bits (83), Expect = 2e-37
Identities = 137/155 (88%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacat
5174

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 32360962 aaaaaattaattatcacaaaatttattatgtaaatttgcattgtgcattaaatgcatta
32360903

Query: 5175 gaaatttttagtggttatatttagtgaaattaatttttataacataattgatgtattagt
5234

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 32360902 taaattttcatgttatatatagcgacattaatttttataacataattgggtctattagc
32360843

Query: 5235 tcagttggtagagcattatgttaataatgtgaaa 5269

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 32360842 tcagttggtagagcggttatgctaataatgtgaaa 32360808

Score = 163 bits (82), Expect = 6e-37
Identities = 133/147 (90%), Gaps = 6/147 (4%)
Strand = Plus / Minus

Query: 563 gaatacaattggcaaatgggcacttcaactataattagtgaattgatttagttgactgtt
622

||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 50060445 gaatacaattgataaatgggcacttcaactataattattgaattgatttcgttaactgtt
50060386

Query: 623 atgaagtattttac----ttaagttagtaaatagtagagtgatgtttgatgaattaaactt
678

|| ||||| ||||||| ||||||| |||||||
Sbjct: 50060385 atcaagtattttacttattttaagtttagtaa-agtagagtgatgtttgattaattaaactt
50060327

Query: 679 aagattgggtgaagttattgatctcac 705
 || ||||| |||||||
Sbjct: 50060326 -agtttggtgaagttattgatctcac 50060301

Score = 161 bits (81), Expect = 3e-36
Identities = 96/101 (95%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
 ||||||| ||||||| ||||||| |||||||
Sbjct: 50457231 aacgccttatccactagctggggctcggctacatggatcaacttccgtcataatgttcta
50457172

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatc 1743
 | ||||| ||||| |||||||
Sbjct: 50457171 ttaagtaccatacttctatccaaatcattaagttcgagatc 50457131

Score = 157 bits (79), Expect = 4e-35
Identities = 136/155 (87%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatta
5174
 ||||||| ||||||| ||||||| || |||||
Sbjct: 32334319 aaaaaattaattatcacaaaatttattatgtaaatttgcattgtgcattaaatatacatta
32334260

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
5234
 ||||||| ||||||| ||| || ||||| ||||||| | |||||
Sbjct: 32334259 taaattttaatgttatatatagcgacattaattattttataatataattagtctattagt
32334200

Query: 5235 tcagttgggttagagcattatgttaataatgtgaaa 5269
 |||| ||||| |||| |||||
Sbjct: 32334199 tcagctgggttagagcggttataactaataatgtgaaa 32334165

Score = 157 bits (79), Expect = 4e-35
 Identities = 135/151 (89%), Gaps = 2/151 (1%)
 Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaacaata
 6575
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Sbjct: 37648943 acaagttgaattgaactaaaatattttaaattacaaaatattt-taaaattacaaaaata
 37648885

Query: 6576 gaacaaaatattttaaatgtgaaataatacaacaaaaattttaaaatacaaacaatatggc
 6635
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Sbjct: 37648884 gaacaaaatattttaaatgagaaa-aatacaacaaaaattttaaaatacaaagaatatgac
 37648826

Query: 6636 ataaaaattaatgttgttggcctgagcctaca 6666
 || || ||||||| ||||||| ||||||| |||||||
 Sbjct: 37648825 atcaatttaatgttgttggccttcagcctaca 37648795

Score = 157 bits (79), Expect = 4e-35
 Identities = 94/99 (94%)
 Strand = Plus / Minus

Query: 241 cttgacacgacatatgacctatgatagcaattcaaacatgggttcatatcagctgagttgc
 300
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Sbjct: 50060908 cttgacactacatatgacctatgatagatattcaaacatgggttcatatcagctgagttgc
 50060849

Query: 301 agacttagctgctagcatttcacgttgtgaatgcaagag 339
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Sbjct: 50060848 agacttagctgccaacatttcacgttgtgaatgcaagag 50060810

Score = 155 bits (78), Expect = 2e-34
 Identities = 130/146 (89%), Gaps = 1/146 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
 5176
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 Sbjct: 16920966 aaaattaattgtcacaaat-tttattatataaaatttatatgtgcattaaatatacattagc
 16921024

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 16921025 aatttttagtggttatatatagtgatattaattattttataacataattggtatattagttc
16921084

Query: 5237 agttggtagagcattatggttaataa 5262

|||||
Sbjct: 16921085 agttggtagagcatcgtggttaataa 16921110

Score = 155 bits (78), Expect = 2e-34
Identities = 195/234 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 27906291 aaaattaactgtcaaaaaatttattatttaaatttacatgcgcattaaatatacattaaa
27906350

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|
Sbjct: 27906351 aatttttagtggttatgtataacaacattatttatttataatataattggtgcattaactc
27906410

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||
Sbjct: 27906411 agttggtagagcgttgtggttaataacctaagtcagtttcaattcttacttgggct
27906470

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaa 5350

|||||
Sbjct: 27906471 attaatttttaaattaatttcgtcacaaatatatttttttaaaaaaaaaattataaaaaa
27906524

Score = 155 bits (78), Expect = 2e-34
Identities = 180/214 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 39438372 aattttagtggttatatatattgatattaattattttataaatattattaacctattagctc
39438431

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 |||||
Sbjct: 39438432 agttggtagagtgttggtgctaataacttgaaagtcataagatttgattcctacttgaacc
39438491

Query: 5297 attaatttttaaattaatttgtaaaa 5321
 |||||
Sbjct: 39438492 attaatttttaaattaattttataaaa 39438516

Score = 151 bits (76), Expect = 2e-33
Identities = 94/100 (94%)
Strand = Plus / Minus

Query: 4313 catctttgcgcttgggacaataacgcagctagtgaggttctaaccgaggtgtgtctattg
4372
 |||||
Sbjct: 50058933 catctttgcgcttggggcaatgacgcagctagtgaggttctaaccgaggcgctctattg
50058874

Query: 4373 ctggttgaaaactattttcaaaccctctgaggcctggg 4412
 |||||
Sbjct: 50058873 ctggttgaaaactattttcaaaccctcttaggcctggg 50058834

Score = 151 bits (76), Expect = 2e-33
Identities = 94/100 (94%)
Strand = Plus / Plus

Query: 4313 catctttgcgcttgggacaataacgcagctagtgaggttctaaccgaggtgtgtctattg
4372
 |||||
Sbjct: 50233505 catctttgcgcttggggcaatgacgcagctagtgaggttctaaccgaggcgctctattg
50233564

Query: 4373 ctggttgaaaactattttcaaaccctctgaggcctggg 4412
 |||||
Sbjct: 50233565 ctggttgaaaactattttcaaaccctcttaggcctggg 50233604

Score = 149 bits (75), Expect = 1e-32
Identities = 197/236 (83%), Gaps = 5/236 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||||||||||||||||||||| ||| || || | |||||||||||||||||
Sbjct: 16920943 aaaattaattggttacaaaatttattatataaaacttatatgtgtattaaatatacattaga
16920884

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||||||| || || ||||||||||||||||||||||||||||| | |||||||||
Sbjct: 16920883 aattttagtggttatatataacgacattaattattttataacataattagtctattagttt
16920824

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 |||| ||||| | | ||||||||||||| |||||| ||||| | || || |
Sbjct: 16920823 agttatttagagtgtcgtattaataatgtaaaagtcacgagttcgactc-tacatggggc
16920765

Query: 5297 attaattttaaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaat 5352
 ||||||||||||||||||| ||||||||| |||| |||||||||||||||||||||
Sbjct: 16920764 attaattttaaaattaatgcgtaaaatatattttt----aaaaaaattataaaaaaat
16920713

Score = 147 bits (74), Expect = 4e-32
Identities = 128/146 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||| ||||||||||||||||| ||||||| ||||| || ||||||||| ||||| |
Sbjct: 43227279 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatataatattaaa
43227338

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||||||| || ||||||||||||||||||||||||||||| || |||||||||
Sbjct: 43227339 tattttagtggttatatataacatcattaattattttataacataattaatctattagttc
43227398

Query: 5237 agttggtagagcattatgttaataa 5262
 ||||||||||||||| ||||| |||||||

Sbjct: 43227399 agttggttagagctttatgctaataa 43227424

Score = 145 bits (73), Expect = 1e-31
Identities = 82/85 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttcgccataatgttcta
1702

|||||
Sbjct: 1351094 aacgccttatcccactaggtggggtcgactacatggatcaattttcgccataatgttcta
1351035

Query: 1703 tcaagtaccatacttctatccaaac 1727
|||||
Sbjct: 1351034 tcaagtaccatacttctatccaaac 1351010

Score = 145 bits (73), Expect = 1e-31
Identities = 136/157 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 30881306 aaaattaattatcacaaaatttattatgtaaatttacatgtgcattaaatatacattaga
30881247

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 30881246 aattttactggttatatataacgacattaattattttataacataattgatctattagctc
30881187

Query: 5237 agttggttagagcattatggttaataatgtgaaagtca 5273
|
Sbjct: 30881186 aattggttaaagcgtcgtgctaataacgtgaaagtca 30881150

Score = 143 bits (72), Expect = 6e-31
Identities = 144/168 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
 Sbjct: 1124641 aaaattaattgttacaaaatttattatgtaagtttatatgtgcattaaatatatattaaa
 1124582

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 1124581 atttttaatggttatatatagtgacattaattattttataacataaattaatttattagttc
 1124522

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaatt 5284

|||||
 Sbjct: 1124521 aattggtagagcgtcatgctaataacataaaaagtcacatgttcaatt 1124474

Score = 143 bits (72), Expect = 6e-31
 Identities = 111/124 (89%)
 Strand = Plus / Minus

Query: 5122 taattgttacaaaatttattatctaaatttgcacataaataacattagaaattt
 5181

|||||
 Sbjct: 38275245 taattgtcacaaaatttattatctaaatttgcacataaataacattagaaattt
 38275186

Query: 5182 tagtggttatatttagtgaaattaattattttataacataattgatgtattagttcagttg
 5241

|||||
 Sbjct: 38275185 tagtggttatatatagcgagattaattattttataacataattgacctattagctcagttt
 38275126

Query: 5242 gtta 5245

||||
 Sbjct: 38275125 gtta 38275122

Score = 141 bits (71), Expect = 2e-30
 Identities = 71/71 (100%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 49912434 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 49912493

```
Query: 1703      tcaagtaccatac 1715
          |||||
Sbjct: 2908528 tcaagtaccatac 2908516
```

Score = 137 bits (69), Expect = 4e-29
Identities = 168/200 (84%), Gaps = 2/200 (1%)
Strand = Plus / Minus

Query: 7459 ctacaaatcattaaataataacaattacaatcaaataatttggggaggggg--tcttcaa
7516
|||||
Sbjct: 12890699 ctacaaatcattaaatgataaaatagaaatcaaataaatagggggggggggttcttcaa
12890640

Query: 7517 acttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaaga
7576
|||
Sbjct: 12890639 actcgattcaagggttcattgcttgatcgagggtattcatccaaagcctccaaattgaaaga
12890580

Query: 7577 gcttgcagaaactgggtgggtggttgatgcatatgtttatgtgggtgtgtctacgggtgataac
7636
|||
Sbjct: 12890579 gctggtagaaattgggtgggtggacgtgcacatgtttgtgtgggcgggtctgtgggtggaat
12890520

Query: 7637 ataaaaactcaaggcatgtga 7656
|||
Sbjct: 12890519 atataactccaggcatgtga 12890500

Score = 135 bits (68), Expect = 1e-28
Identities = 185/224 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 65969 aaaattaattatcacaaaatttattatttaaatttacatgcacattagatatacattaaa
65910

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 65909 aattttaattattatatataacaacattatttattttataacatagttgaactattaactt
65850

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|

Sbjct: 65849 aattgggttagagtgttatattaataacattaaagtcataagtttaattcttgattgggcc
65790

Query: 5297 attaatTTTTAAATTAATTTGTAAAATATATTTTTGAAAAAAAAA 5340
|||||
Sbjct: 65789 attaatTTTTAAATTAATTTGTAAATACACATTTTGCACAAAAAA 65746

Score = 135 bits (68), Expect = 1e-28
Identities = 131/151 (86%), Gaps = 2/151 (1%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
6575
|||||
Sbjct: 18377802 acaagttgaattgaactaaaatatttaaattataaaaatatataaaattaccaacaaca
18377743

Query: 6576 gaacaaaatattttaaatTTGAAATAATACAACAAAAATTTTAAAATACAAACAATATGGC
6635
|||||
Sbjct: 18377742 aaacaaaatattttaaatTTAAAACAATACAATAAATTTTAAAATACAAAGAATATG--
18377685

Query: 6636 ataaaattaatgTTGTTGGCCTGAGCCTACA 6666
|||
Sbjct: 18377684 acagatttaatgTTGTTGGCCTGAGCGTACA 18377654

Score = 135 bits (68), Expect = 1e-28
Identities = 116/132 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 24272771 aaaattaattgtcacaaaatttattatttaaatttacatgagcattaaatatacattaga
24272712

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||
Sbjct: 24272711 aaatttagtattatgtatagtaacattattttattttataacataattgacttattagttc
24272652

Query: 5237 agttgggttagag 5248

||||| ||||||||||||| ||||||| ||||| ||||||| ||||||| || ||||| ||
Sbjct: 6819385 tatatatgttgattttactaacacacttattggcagatttcattgttttttttagtatcga
6819326

Query: 7280 attaatt 7285
 |||||
Sbjct: 6819325 attaat 6819320

Score = 133 bits (67), Expect = 6e-28
Identities = 115/131 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||||||| ||||||||||| ||||||| ||||| | ||||||||||| |
Sbjct: 42884378 aaaattaattgtcacaaaatttattatttaaatttacatgcataattaaatatacattaaa
42884437

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||| ||||||| | || ||||||| ||||||||||| ||||||| | ||||| |
Sbjct: 42884438 aatcttagtggtcacatatagtgacattaattattttataacataattaacttattagctt
42884497

Query: 5237 agttgggttaga 5247
 |||||||||||
Sbjct: 42884498 agttgggttaga 42884508

Score = 131 bits (66), Expect = 2e-27
Identities = 132/154 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||||||| | ||||||||||| ||||||| |||| || || |||||||||||
Sbjct: 33346948 aaaattaattgtcaaaaaatttattatttaaatttacatgtgcattacatacattaga
33347007

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||| ||||||| ||| ||||||||||| ||||||| |||||||
Sbjct: 33347008 aattttattgttatatatagcattattaattattttataacataattggcctattagttc
33347067

Query: 5237 agttgggttagagcattatgttaataatgtgaaag 5270
 | ||||||||||| || || |||||||||||
Sbjct: 33347068 aattgggttagagtgttgcttaataatgtgaaag 33347101

Score = 131 bits (66), Expect = 2e-27
Identities = 135/158 (85%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacattag
5175
 ||||||||||||||||||||||||||||| ||| || ||| ||| |||||||||||||
Sbjct: 49147335 aaaaattaattggttacaaaatttattatgtaaaattatatgtgcattaaatatacattag
49147276

Query: 5176 aaatTTtagtggttatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235
 ||||||||||||||||| || ||| ||||||||||||||||||||||||| || ||||| |
Sbjct: 49147275 aaatTTtagtggttatatataacgacattaattatTTTataacataatttatcaattaact
49147216

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtca 5273
 ||||||||||| ||| || ||||| | |||||||
Sbjct: 49147215 tagttgggttagaatattgtgctaataacgcgaaagtca 49147178

Score = 129 bits (65), Expect = 9e-27
Identities = 131/153 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||| ||||||||||||||||| ||||| ||||||| |||| ||| ||||||||| ||||| |
Sbjct: 4958214 aaaattatTTggttacaaaattaattatgtaaaatttacatgtacattaaatataatataaa
4958273

Query: 5177 aatTTtagtggttatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236
 || ||||||||||||||||| ||| | ||||||||||||||||||||| ||||| |||||||||
Sbjct: 4958274 aaatTTtagtggttatatatagcaacattaattatTTTataatataattatcttattagttc
4958333

Query: 5237 agttgggttagagcattatgttaataatgtgaaa 5269
 ||||||| | ||||||| ||||||||||| |||||
Sbjct: 4958334 agttggtgaaagcattgtgttaataaatatgaaa 4958366

Score = 129 bits (65), Expect = 9e-27

Identities = 88/93 (94%), Gaps = 2/93 (2%)
 Strand = Plus / Minus

Query: 4625 tttgataaaacagaaacctttttgtgtaatcatcaaacatgcatacctcacttcttcat
 4684
 |||||
 Sbjct: 50058085 tttgataaaacaaaaatcttttt-tgtaatcatcaaacatgcagacctcacttcttcat
 50058027

Query: 4685 aattctagttggtggaactccaatcatctcagc 4717
 || |||||
 Sbjct: 50058026 aa-tctagttggtggaactccaatcatctcagc 50057995

Score = 127 bits (64), Expect = 3e-26
 Identities = 157/188 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 34269180 aaaattaattgtcacaaaatttattatgtaaatttacatatgcattaaatatatattaaa
 34269121

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 34269120 aatttgactggttatatatagctacattaattattttataacctaattgaattattagttc
 34269061

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 34269060 agttggtagagtgtattgttaataaacttcaaagccatagggttcaattcctacttagacc
 34269001

Query: 5297 attaattt 5304
 |||||
 Sbjct: 34269000 attaattt 34268993

Score = 125 bits (63), Expect = 1e-25
 Identities = 114/131 (87%)
 Strand = Plus / Minus

Query: 5177 aattttagtgttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

Query: 7071 tgtcgcattaatcgaactcaagaacaatgtgagagtttgccttttctgtatgtctttca
7130

Query: 7131 tagccttgtttaataacttttgtataaacttcaccaaagtgaatcactcttgcgacttctc
7190

Query: 7191 tccccctttggttgaacaatgcattacacctagtatagggtgattttaccaacacac--a
7248

Score = 125 bits (63), Expect = 1e-25
Identities = 127/147 (86%), Gaps = 1/147 (0%)
Strand = Plus / Minus

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
5235

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaaatatacattaga
5176

Query: 5177 aat t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236

Query: 6550 aaatagatatgaaattacaaacaatagaacaaaatatTTTaaatttgaaataatacaacaa
6609

Sbjct: 12181678 aaatagatatataaaattacaaacaatagagcaaaatatttatattacaagtaatacaacaa
12181619

Query: 6610 aaattttaaaatacaaaacaatatggcataaaattaatggttggtggcctgagcctacac
6667

|||| ||||| ||||||||| ||||||||| ||||||||| |||||||||
Sbjct: 12181618 aaaaattaaattacaaacaatacaacataaaattaagttggttggttgagcctacac
12181561

Score = 123 bits (62), Expect = 5e-25
Identities = 92/102 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

||||||||||| ||||||||||||| ||||||| ||| ||| ||||||||||||| |
Sbjct: 38888137 aaaattaattgtcacaaaatttattatataaaattttatgtacattaaatatacattaaa
38888078

Query: 5177 aattttagtggttatatttagtgaaattaattattttataaca 5218
||||||||||||||| || ||| |||||||||||||

Sbjct: 38888077 aattttagtggttatatataatgacattaattattttataaca 38888036

Score = 123 bits (62), Expect = 5e-25
Identities = 97/108 (89%), Gaps = 3/108 (2%)
Strand = Plus / Minus

Query: 453 accagagtttgtaattcagcttgatcgtaccatctaataatcttagtcaaatttggtgat
512

||||||||||||||||||||| ||||||||| || |||||||||||||||||
Sbjct: 50060567 accagagtttgtaattcagcttgatcataccatctaacatttttagtcaaatttggtgt--
50060510

Query: 513 aataagtattttaaagtgtgagtcctcttttatttaattagtttaataat 560
||||||||||||||| || ||| ||||||||||||| |||||||||

Sbjct: 50060509 -ataagtattttaaagttgtgtctgttttatttaattagtataaataat 50060463

Score = 121 bits (61), Expect = 2e-24
Identities = 130/153 (84%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatTTtagtgTTa
5189
 ||||| ||||| || | || || ||||| ||||| ||||| |||||
Sbjct: 24274513 acaaaatttattattttaatttacaagtgacattatatatacattagaaatTTtagtgTTa
24274572

Query: 5190 tatttagtgaaattaattattttataacataattgatgtattagttcagttggTTtagagc
5249
 ||| ||| | |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 24274573 tatatagcaacattatttattttatgacataattgacatattagctcagttggTTtagagc
24274632

Query: 5250 attatgttaataatgtgaaagtcAAAagttcaa 5282
 || || ||||| | ||||| ||||| |||||
Sbjct: 24274633 gttgtgctaataacctaAAAgtcacaagttcaa 24274665

Score = 119 bits (60), Expect = 9e-24
Identities = 159/192 (82%)
Strand = Plus / Plus

Query: 5148 atttgcacatgcacaataaatatacattagaaatTTtagtgTTatatttagtgaaattaatt
5207
 |||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7671774 atttaccatgcgcattaaatatacattAAAAatTTtagtgTTatgtataacaacattattt
7671833

Query: 5208 atTTtataacataattgatgtattagttcagttggTTtagagcattatgttaataatgtga
5267
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7671834 atTTtataatataattgacttattagttcagttggTTaaagtgTTgtactaataacctga
7671893

Query: 5268 aagtcAAAagttcaattcttacttggaTcattaatTTtAAattaatttgTAAAatatatt
5327
 ||||| | ||| | |||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7671894 aagtcacatgTTtgagTcttgcttggaTcattaatTTtAAattaatttgacacAAatatt
7671953

Query: 5328 tttgAAAAAAAA 5339
 ||| ||||| |||||
Sbjct: 7671954 tttcaAAAAAAAA 7671965

Score = 119 bits (60), Expect = 9e-24
Identities = 96/108 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||| ||||||| ||||||| ||||||| ||| || || ||||||| ||
Sbjct: 33346853 aaaattaactgttacaaaatttattatgtaaatttacatgtgcattacatatacattaga
33346794

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224

||||| ||||||| |||||| || ||||||| ||||||| |||||||
Sbjct: 33346793 aattttattgttatatatagtgatatttattattttataaatataattg 33346746

Score = 119 bits (60), Expect = 9e-24
Identities = 66/68 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatggttcta
1702

|||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 38753716 aacgtcttatcccactaggtggggtcgggtacatggatcaacttccgctcataatggttcta
38753775

Query: 1703 tcaagtac 1710

|||||
Sbjct: 38753776 tcaagtac 38753783

Score = 119 bits (60), Expect = 9e-24
Identities = 76/80 (95%), Gaps = 1/80 (1%)
Strand = Plus / Minus

Query: 56 cacagtggaacaattttgatttctgggttaatgggtgtattaaaaaatatcagaaaactttca
115

||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 50061222 cacagttgacaattttgatttctgggtcatgggtgtattaaaa-tatcagaaaactttca
50061164

Query: 116 aatatctcgagcaggcagtt 135

||||| ||||||| |||||||
Sbjct: 50061163 aatatcttgagcaggcagtt 50061144

Score = 117 bits (59), Expect = 3e-23
Identities = 143/171 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176

Sbjct: 205320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
205379 aaaattaattgtcacaaaatttattatttaaatttacatgcggtattaaataacattaga

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

Sbjct: 205380 aattttaatgttatgtataataacgttattttattttataatgtaattgattcattagctc
205439

```
Query: 5237      agttggttagagcattatgtaataatgtgaaagtcaaaagttcaattcct 5287
                | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 205440    aattagttagactattatgtaataaacttgaaagtcacaggttcgattcct 205490
```

Score = 117 bits (59), Expect = 3e-23
Identities = 113/131 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176

Sbjct: 24273079 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
24273138 aaaattaattgtcataaaatattattttaaatatatgcgcattaaataacattaga

Query: 5177 aat t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236

Sbjct: 24273139 aaatttaatgttatgtatagtaacattattttattttataacataattgacctattaactc
24273198

```
Query: 5237      agttggttaga 5247
           |||||
Sbjct: 24273199 agttggttaga 24273209
```

Score = 117 bits (59), Expect = 3e-23
Identities = 113/131 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaaatatacattaga
5176

Score = 113 bits (57), Expect = 5e-22

Identities = 60/61 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatggttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 45601576 aacgccttatcccactaggtggggtcggctacatggatgaacttccgccataatggttcta
 45601517

Query: 1703 t 1703
 |
 Sbjct: 45601516 t 45601516

Score = 111 bits (56), Expect = 2e-21
 Identities = 137/164 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||||| ||||||||||||||| ||||||| ||| || ||||||||||||||||
 Sbjct: 19362943 aaaattaattgtcacaaaatttattatttaaatttacatgtgcattaaatatacattaga
 19363002

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 | ||||||||||||| || | ||||| ||||||||||| ||||||| ||||| |
 Sbjct: 19363003 agtttttagtggttatataataacaacattattttattttataaatttaattgacataattagctt
 19363062

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaaaagttc 5280
 ||||||| ||||||| | || ||||||| ||||||||||| |||||||
 Sbjct: 19363063 agttggctagagcgtcactaataaattgaaagtcacaagttc 19363106

Score = 111 bits (56), Expect = 2e-21
 Identities = 101/116 (87%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||||| ||||| || ||||||| ||||| || ||| ||| ||||||||||||| |
 Sbjct: 35263519 aaaattaattgtcacaaatataatattatgtaaacttatatgtacattaaatatacatataa
 35263460

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232

```

Query: 5237      agttggttagagcattatgttaataatgtgaaagtcaaaagtt 5279
                | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 6095291  aattgqgttaaacqttgtgctaataacttgaaaqtcacaaqtt 6095333

```

Score = 109 bits (55), Expect = 8e-21
Identities = 73/79 (92%)
Strand = Plus / Minus

Query: 6938 aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatc
6997
|||||
Sbjct: 6819667 aacatgagaacaagacatgtgcaattttttgaaatttgtcacagtcacaccacctttcatc
6819608

Query: 6998 tagcttgaccatgaaattt 7016
|| |||||
Sbjct: 6819607 cagtgtgaccatgaaattt 6819589

Score = 107 bits (54), Expect = 3e-20
Identities = 178/217 (82%), Gaps = 3/217 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||
Sbjct: 41415662 aaaattaattgtcataaaaatttattatttaaatttgcattgcattaaatatacattaaa
41415603

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 41415602 aattttta--gttatatatagcaacattattttattttataatataattgggtctattagctt
41415545

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
|||||
Sbjct: 41415544 agttgggttagagtatcatgctaataacctaaaagtcattaggtttgactc-tgcttaggcc
41415486

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaa 5333
|||||
Sbjct: 41415485 attaatttttaaattaatttcataaaacatatatttttgaa 41415449

Score = 105 bits (53), Expect = 1e-19
Identities = 77/85 (90%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttatgaataaataaaaagggttttattcttaaatttgcttgag
5073

|||||
Sbjct: 6240686 ataattttaataaaactatatttatgagtaaataaaaaggcctcattcttaaatttgctttag
6240745

Query: 5074 ccctctcaagtccttgagccgcccc 5098

|||||
Sbjct: 6240746 gcctcttaagtccttgagccgcccc 6240770

Score = 105 bits (53), Expect = 1e-19
Identities = 74/81 (91%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttatgaataaataaaaagggttttattcttaaatttgcttgag
5073

|||||
Sbjct: 10136477 ataattttaataaattatatttatgaataaataaaaagtctcattcttaaatttgctttag
10136536

Query: 5074 ccctctcaagtccttgagccg 5094

|||||
Sbjct: 10136537 gtctctcaagttcttgagccg 10136557

Score = 105 bits (53), Expect = 1e-19
Identities = 110/129 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 10868619 aaaattaattattacaaaatttattatgtaattttatatgtgtaataaatatatattaga
10868678

Query: 5177 aatttttagtggttatatttagtgaaattaattatattttataacataattgatgtattagttc
5236

|||||
Sbjct: 10868679 aatttttaattgttatatataacgacattaattatatttttagcataattaatttattagttt
10868738

Query: 5237 agttgggtta 5245

|||||
Sbjct: 10868739 agttgggtta 10868747

Query: 6725 ctttttggtgtgtatatacagagaggagacatgacaacctttagaatttcttttcatttttgg
 6784

Sbjct: 4553811 ||||| ||||| ||||| ||||| ||||| | ||||| |||||
 4553757 ctttttggtgtggatacagtagagacaggacaatcttttagta---ctttt--tttttgg

Query: 6785 gttggggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcacaatttccc
 6844

Sbjct: 4553756 ||| || | || ||||| ||||| ||||| ||||| | | ||||| ||||| ||||| |
 4553697 gtttagggacatcattggctcgtgacatgatgaccaataggtttcattgcataattcttc

Query: 6845 aagtaatcatttgtacatggttatagatacttttcagcgtatacacaagatgtatgtagtt
 6904

Sbjct: 4553696 || ||| || ||||| ||||| ||||| ||||| | | ||||| ||||| ||||| |||||
 4553637 aaacaattatctgtatatgttggagacatttttcaacctttacacaagatgtatgtagtt

Query: 6905 cctataactcatggtgagcatgcttata---aacaacaacatgagaacaaaacatgtgcat
 6961

Sbjct: 4553636 || ||||| || ||||| ||||| | ||||| ||||| ||||| ||||| ||||| |||||
 4553577 tctgtactcatgatgaacatgcttacaagcaacaacaacatgagaacaagacatgtgcaa

Query: 6962 tttttgaaatttgtcacagtcacactacctttcatctag 7000

Sbjct: 4553576 || | ||||| ||||| ||||| ||||| ||||| |||||
 cttctagaatttgccacagtcacaccacctttcgtctag 4553538

Score = 103 bits (52), Expect = 5e-19
 Identities = 88/100 (88%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

Sbjct: 4847957 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 4847898 aaaattaattgtcacaaaatttattattttaaatttacatgtgcattaaatatacattaga

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataa 5216

Sbjct: 4847897 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 aatttttagtattatatatagcaacattatttattttataa 4847858

Score = 103 bits (52), Expect = 5e-19
 Identities = 67/72 (93%)
 Strand = Plus / Minus

Query: 5278 ttcaattcttacttggatcattaattttaaattaatttgtaaaatatatTTTTGAAAAA
5337

||||| || ||| ||||||||||||||||||| |||||||||||||||
Sbjct: 6770450 ttcaatttttgcttagatcattaattttaaattaattcgtaaaatatatTTTTGAAAAA
6770391

Query: 5338 aaattataaaaa 5349

||||| |||||
Sbjct: 6770390 aaattataaaaa 6770379

Score = 103 bits (52), Expect = 5e-19
Identities = 109/128 (85%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacatagaa
5177

||||||||| ||||||||||||||||||| ||| ||| ||||||| ||| ||
Sbjct: 33415682 aaattaattgtcacaaaatttattatctaaatttatatgtacattaaatatatataaa
33415741

Query: 5178 attttagtggttatattttagtgaaattaattatTTTataacataattgatgtattagttca
5237

||||||| ||| || || | | ||||||||||| ||||| ||||| ||||| |||
Sbjct: 33415742 attttagtattacatatatttacattaattatTTTctaacacaattgacctattaattaa
33415801

Query: 5238 gttgggta 5245

|||||||
Sbjct: 33415802 gttgggta 33415809

Score = 103 bits (52), Expect = 5e-19
Identities = 91/104 (87%)
Strand = Plus / Minus

Query: 5120 attaattgttacaaaatttattatctaaatttgcacataaatatacatagaaat
5179

||||||| ||||||||||||||||||| ||||||| || | |||||||||||||||
Sbjct: 37026557 attaattattacaaaatttattatataaaatttatatgtattaaatatatacatagaaat
37026498

Query: 5180 ttttagtggttatatTTtagtgaaattaattatTTTataacataatt 5223

||||||||||| ||| || | |||||||||||
Sbjct: 37026497 ttttagtggttatatagcgacactaattatTTTataacataatt 37026454

Score = 103 bits (52), Expect = 5e-19
 Identities = 112/132 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176
 ||||| ||||| ||||| ||||| |||| | | ||||| ||||| |
 Sbjct: 50372476 aaaattaattattacaaaaattattatttaaatttacctgtgcattaaatatacattata
 50372535

Query: 5177 aatttttagtggttatatttttagtgaaattaattatttttataacataattgatgtattagttc
 5236
 ||||| ||||| || | | ||||| ||||| ||||| ||||| |||| |
 Sbjct: 50372536 aatttttagtattatatataacaacattaattattgtataagataattgatctattaactc
 50372595

Query: 5237 agttgggtagag 5248
 |||| |
 Sbjct: 50372596 agttgattagag 50372607

Score = 101 bits (51), Expect = 2e-18
 Identities = 135/163 (82%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttttagtgaaattaattatttttataacataa
 5221
 ||||| ||||| || |||| | | | ||||| ||||| ||||| ||||| |||||
 Sbjct: 5472047 taaatatacattaaaaattttaatgatatatataacaacatcaattattttttaacataa
 5471988

Query: 5222 ttgatgtattagttcagttgggtagagcattatgttaataatgtgaaagtcaaaagttca
 5281
 |||| | |||| | ||||| || | ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 5471987 ttgacatattaattcagttgattaaagcattgtgttaataatgtgaaagtcacacattca
 5471928

Query: 5282 attcttacttgggattcattaatttttaaattaatttgtaaaatat 5324
 | ||| | | ||||| ||||| || | ||||| ||||| ||||| ||||| |||||
 Sbjct: 5471927 agacttgtatgaaccattaatttttaaattatttttataaaatat 5471885

Score = 101 bits (51), Expect = 2e-18

Identities = 155/189 (82%), Gaps = 3/189 (1%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatTTTtagtgTTatatttagtgaaattaattatTTTataacataa
5221

||||| ||||||| ||||||| || ||| | |||| | ||||||| |||
Sbjct: 7671778 taaatatgcattagaaaatTTTtagtgTTatgtatagcaacattatTTTatTTTataatgtaa
7671719

Query: 5222 ttgatgtatttagttcagttggTTtagagcattatgTTaataatgtgaaagtcaaaagttca
5281

|| ||||| ||| ||||||| || || ||||||| | ||||||| |||||
Sbjct: 7671718 ttagctcattagctcaattggTTtagagcattgtgctaataataaaaagtcacaagtttg
7671659

Query: 5282 attcttacttggatcattaatTTTaaattaatttGTaaaatatatTTTtgaaaaaaaaat
5341

| |||| | ||||| ||||||| ||||||| || || ||||||| | ||||||| |||||
Sbjct: 7671658 agtcttgcttggaccattaatTTTaaattaattTTTcacaaatatTT---aaaaaaaaat
7671602

Query: 5342 tataaaaaa 5350
|| |||||

Sbjct: 7671601 taaaaaaa 7671593

Score = 101 bits (51), Expect = 2e-18
Identities = 129/155 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatTTTattatctaaatttgcattgcacaataaatatacattaga
5176

||||||| || | ||||||| ||| ||||||| |||| | ||||||| ||||| |
Sbjct: 32224307 aaaattaattatcacaaaatTTTaattttaaatttacatgcgcattaaatatacattaaa
32224366

Query: 5177 aatTTtagtgTTatatttagtgaaattaattatTTTataacataattgatgtatttagttc
5236

||||||| ||||||| || || | |||| | ||||||| ||||||| | ||||| ||
Sbjct: 32224367 aatTTtagtgTTatgtataacaacattatTTTatTTTataacgtaattggTTcatttagctc
32224426

Query: 5237 agttggTTtagagcattatgTTaataatgtgaaagt 5271

||||||| ||| || || ||||| |||||||
Sbjct: 32224427 agttggTTaaagcgttGTgctaataaacttgaaagt 32224461

Score = 99.6 bits (50), Expect = 8e-18
 Identities = 107/126 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| | ||||| ||||| ||||| || ||||| |||||
 Sbjct: 4848085 aaaattaattatcacaaaatttattatttaaatttacatatgcattaaatataaattaga
 4848144

Query: 5177 aattttagtggttatattttagtgaaattaattatttataacataattgatgtattagttc
 5236
 ||||| ||||| || || | ||||| ||||| ||||| ||||| ||
 Sbjct: 4848145 aatttcagtggttatatataacaacattattcattttataacataattgatctattagctc
 4848204

Query: 5237 agttgg 5242
 |||||
 Sbjct: 4848205 agttgg 4848210

Score = 99.6 bits (50), Expect = 8e-18
 Identities = 86/98 (87%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
 5175
 ||||| ||||| ||||| ||||| || || ||||| |||||
 Sbjct: 6776179 aaaaattaattgtcacaaaatttattatgttaaatttatatgtgcattaaatataatattag
 6776120

Query: 5176 aaattttagtggttatattttagtgaaattaattatttta 5213
 ||||| ||||| || || ||||| |||||
 Sbjct: 6776119 aaattttagtattatatataatgacattaattatttta 6776082

Score = 99.6 bits (50), Expect = 8e-18
 Identities = 109/128 (85%), Gaps = 3/128 (2%)
 Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
 5177
 ||||| ||||| ||||| ||||| ||||| || ||||| |||||
 Sbjct: 22800677 aaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatacattagaa
 22800736

```
Query:  6759      cctttagaattttcttttc 6776
          || || ||||| |||||
Sbjct: 37648680 cccttggaatttttttttc 37648663
```

Score = 99.6 bits (50), Expect = 8e-18
Identities = 69/74 (93%), Gaps = 1/74 (1%)
Strand = Plus / Minus

Query: 62 ggacaattttgatttctgggttaatgggtgtattaaaaatatcagaaaactttcaaataatc
121
 ||||| ||||||||||||||| ||||||| ||||| |||||||||||||||||||||
Sbjct: 50046372 ggacaactttgatttctgggttatgggtgtcttaaaa-tatcagaaaactttcaaataatc
50046314

Query: 122 tcgagcaggcagtt 135
 | |||||||||
Sbjct: 50046313 ttgagcaggcagtt 50046300

Score = 97.6 bits (49), Expect = 3e-17
Identities = 97/113 (85%)
Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttgggttagagcattatgttaat
5260
 ||||||||||||||||||| || |||| ||||||||| | |||||||||
Sbjct: 5486507 attaattatTTTtataacataattgacatataagtttagttgggttataacattatgttaat
5486448

Query: 5261 aatgtgaaagtcaaaagttcaattcttacttggtatcattaatttttaaattaat 5313
 || ||||||||| | ||| |||| | |||| |||||||||||||||||
Sbjct: 5486447 aacgtgaaagtccttaggtttgattcatgtttggaccattaatttttaaattaat 5486395

Score = 97.6 bits (49), Expect = 3e-17
Identities = 49/49 (100%)
Strand = Plus / Plus

Query: 2065 taccgcagtcgataaaaactttccctttagcttgatcggtacctttgca 2113
 |||||||||||||||||||
Sbjct: 14400765 taccgcagtcgataaaaactttccctttagcttgatcggtacctttgca 14400813

Score = 97.6 bits (49), Expect = 3e-17
Identities = 94/109 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 29922052 aaaattaattggtcataaaagtttattatttaaatttacatgcttattaaatatattata
 29921993

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||||
 Sbjct: 29921992 aatttttagtggttatataacaacattaattattttataacataattga 29921944

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 64/69 (92%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 41467639 aaaattaattggtcacaaaatttattatttaaatttacatgcgcattaaatatatacattaga
 41467580

Query: 5177 aatttttagt 5185
 |||||
 Sbjct: 41467579 aatttttagt 41467571

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 95/109 (87%), Gaps = 1/109 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 42994049 aaaattaattggtcataaaattaattatataaaatttacatgtacattaaatatatacattaga
 42993990

Query: 5177 aa-ttttagtggttatatttagtgaaattaattattttataacataattg 5224
 || |||||
 Sbjct: 42993989 aatttttaattatataataatgacattaattattttataatataattg 42993941

Score = 97.6 bits (49), Expect = 3e-17
 Identities = 70/77 (90%)
 Strand = Plus / Minus

Query: 341 aaaaatacatagaaaaagagggaacaaaattgttaaccctccatattgtacagggttttagc
400
 |||||
Sbjct: 50060657 aaaaatacatagaaaaagagggaacaaaattgttagcttcccaatgtacagggttcagc
50060598

Query: 401 ctcaattttaccattg 417
 || |||||
Sbjct: 50060597 cttaattttaccattg 50060581

Score = 95.7 bits (48), Expect = 1e-16
Identities = 123/144 (85%), Gaps = 3/144 (2%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataattttttatc
4816
 |||||
Sbjct: 6239951 taactgttaatctttttattggtaccgtaagtaacaattaatgagcaacaactcttcacc
6240010

Query: 4817 aatatcatagctttgttt-agaaaaaaagagatttaataattaata-gctaaagaaatcc
4874
 |||||
Sbjct: 6240011 aatatcttagctatgtttaaaaaaaagagatttaatggtaataggctatagaaatcc
6240070

Query: 4875 aaaagtttttcttttatttttatt 4898
 | |||
Sbjct: 6240071 agaaggttttcttttatttctatt 6240094

Score = 95.7 bits (48), Expect = 1e-16
Identities = 169/208 (81%), Gaps = 1/208 (0%)
Strand = Plus / Minus

Query: 6725 cattttggtgtgtatacgagaggagacatgacaacctttagaatttcttttcatttttgg
6784
 |||||
Sbjct: 12181483 catttaggtgtgtatacgagagaagactagacaacctttagaatttcttagcatttttat
12181424

Query: 6785 gttggggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcacaatttccc
6844
 || |||||

```
Query: 5177      aatttta 5183
          |||||
Sbjct: 4807153  aatttta 4807147
```

Query: 5190 tatttagtgaaattaattatattttataacataattgatgtattagttcagttggttagagc
5249

Query: 5177 aat t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t 5222
||||||| | ||||| | | |||||||||||||||||||||
Sbjct: 6095015 a a t t t t a t t a t t a t a t a a a t a a c a t t a a t t a t t t t a t a a c a t a a t 6094970

Score = 91.7 bits (46), Expect = 2e-15
Identities = 73/82 (89%)
Strand = Plus / Minus

Query: 5014 a t a a t t t t a a t a a a t t a t t t t a t g a a t a a a a a g g t t t t a t t c t t a a a t t t g c t t g a g 5073
||||||||| ||||||| ||||||| | | ||||||| || ||
Sbjct: 14946823 a t a a t t t t a a t a a a c t a t t t t a t g a g t a a a t a a a a g a t c t c a t t c t t a a a t t t g t t t t a g 14946764

Query: 5074 c c c t c t c a a g t c c t t g a g c c g c 5095
|||||||||
Sbjct: 14946763 g t c t c t c a a g t c c t t g a g c c g c 14946742

Score = 91.7 bits (46), Expect = 2e-15
Identities = 136/166 (81%)
Strand = Plus / Plus

Query: 5115 a a a a a a t t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a a t a t a c a t t a 5174
||||||||| | ||||||| || | ||||| || | || |||||||
Sbjct: 31909567 a a a a a a t t a a t a a t c a c a a a a t t t a g t a t g c a a a t t t a t a t g t g c a t t a a a t a t a c a t t a 31909626

Query: 5175 g a a a t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t a t a a c a t a a t t g a t g t a t t a g t 5234
||||| ||||||| || | ||||||| ||||||| ||||| | |||||
Sbjct: 31909627 a a a a t t t g a g t g t t a t a t a t a a c a a t a t t a a t t a t t t t a t a a t a t a a t t a a c t t a t t a g c 31909686

Query: 5235 t c a g t t g g t t a g a g c a t t a t g t t a a t a a t g t g a a a g t c a a a a g t t c 5280
|| ||||||| || | ||||||| ||||||| |||||
Sbjct: 31909687 t c g g t t g g t t a g a a c a t c g t g c t a a t a a t g c g a a a g t c a c a a g t t c 31909732

Score = 91.7 bits (46), Expect = 2e-15
Identities = 130/158 (82%)
Strand = Plus / Plus

```
Query: 5177      aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
                ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7199268  aattttaatatatatataataatattattttattttataatatataattga 7199316
```

Score = 89.7 bits (45), Expect = 8e-15
Identities = 93/109 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 29989956 aaaattaattgttacaaaattaattatgtaaacttatatgtgtattaaatatacattaga
29990015

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||||
Sbjct: 29990016 aattttagtggttatatataacaatattaattatttgttaacataattga 29990064

Score = 89.7 bits (45), Expect = 8e-15
Identities = 93/109 (85%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
 |||||
Sbjct: 33244759 aaaaattaaatatacacaatttattatgtaaatttacatgtgcattaaatatacattaa
33244818

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattg 5224
 |||||
Sbjct: 33244819 aaattttaatatattatataacgacattaattattttataatataattg 33244867

Score = 89.7 bits (45), Expect = 8e-15
Identities = 124/149 (83%), Gaps = 1/149 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 34800951 aaaattaattattacaaaattaattatgtaaacttatatttgtattaaatatacattaga
34801010

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 34801011 aattttagtggttatatatagtgaccttaattatttt-taatataattagtctattgactc
34801069

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattag
5175
|||||

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcatacacaataaatatacattaga
5176
|||

```
Query: 5237      agttggttagag 5248
             ||||| |||||
Sbjct: 34054819 agttgattagag 34054808
```


Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagcattatgttaat
5260
|||||
Sbjct: 50372237 attaattatTTTtataacataatttacctattaactc---tggttagagcattgtgttaat
50372181

Query: 5261 aatgtgaaagtcAAAagttcaattcttacttggatcattaatTTTaaattaatttgtaaa
5320
|| |
Sbjct: 50372180 aacttaaaagtcacatgttggattctg-cttgaatcattaatTTTaaattaatttataaa
50372122

Query: 5321 atatattttt 5330
|||||
Sbjct: 50372121 atatattttt 50372112

Score = 85.7 bits (43), Expect = 1e-13
Identities = 91/107 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgTTacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||
Sbjct: 12377227 aaaatcaattgccacaaaatttattatgtaaattacatgtgcattacatatacattaaa
12377286

Query: 5177 aatttttagtgTTatatatttagtgaaattaattatTTTtataacataatt 5223
|
Sbjct: 12377287 atttttagtgTTatatataacaatattaattatTTTtataacataatt 12377333

Score = 85.7 bits (43), Expect = 1e-13
Identities = 98/115 (85%), Gaps = 1/115 (0%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcattgcacaataaatatacattagaaatttttagtgTTa
5189
|||||
Sbjct: 26096126 acaaaatttattatgtaaatttatatgtacattaaatataaattagaaattttactgTTa
26096067

Query: 5190 tatttagtgaaattaattatTTTtataacataattgatgtattagttcagttggtt 5244
|||
Sbjct: 26096066 tatatagtacact-atttgTTtataacataatgtatctattagctcagttggtt
26096013

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 91/107 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 |||||||||||||||||||||||||||| || |||| ||| | |||||||| |||| |
 Sbjct: 34800857 aaaattaattggttacaaaatttattatgtagatttatatgtgtattaaatatatattaaa
 34800798

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataatt 5223
 |||||||||||||||| | || || |||||| ||| |||||||||
 Sbjct: 34800797 aattttagtggttatatatattgactttaattaatttttaacataatt 34800751

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 161/199 (80%), Gaps = 1/199 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 ||||||||| | | |||||||||||| |||||| ||| | | |||||||||||| |
 Sbjct: 37720773 aaaattaattatcataaaatttattatttaaatttacatatatattaaatatatacattaaa
 37720832

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 | |||||||||||||| || | | |||| |||||||||| |||||| | |||| |||
 Sbjct: 37720833 attttagtggttatatataataatattattttattttataatataattagactattacttc
 37720892

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||| ||| | |||| |||||| |||||||| | ||| | || |||| ||
 Sbjct: 37720893 agttattttaaataattatattaataatttgaaagtcatatgtttgactc-tacttaaatt
 37720951

Query: 5297 attaatttttaaattaattt 5315
 ||||||||||||||||
 Sbjct: 37720952 attaatttttaaattaattt 37720970

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 92/107 (85%), Gaps = 1/107 (0%)

Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||||||||||||||||||||||||||| ||| | ||||||| |||||
Sbjct: 37836723 aaaattaattggttacaaaatttattatgtaaatttatatgtgtattaaatatgtattaga
37836782

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 ||||||||| |||||| | || |||||||||||| |||||||||
Sbjct: 37836783 aatttttagtattatatatgatgacattaattatttt-taacataatt 37836828

Score = 85.7 bits (43), Expect = 1e-13
Identities = 70/78 (89%), Gaps = 2/78 (2%)
Strand = Plus / Minus

Query: 3968 tcaagtataaaaaatttaattggttttagcatatttttcac--ataatttgtccaatttcat
4025
 ||||||||| ||| |||||||||||||||||||||||||||| || ||||||||||||| ||
Sbjct: 50059432 tcaagtatacaaagtttaattggttttagcatatttttcacaaatgatttgtccaattttat
50059373

Query: 4026 tgttcattagcatacgat 4043
 |||||||||||||||||
Sbjct: 50059372 cattcattagcatacgat 50059355

Score = 83.8 bits (42), Expect = 5e-13
Identities = 93/109 (85%), Gaps = 2/109 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||| || ||||||||||| ||||||| ||||| | ||||||||||||| |
Sbjct: 22800549 aaaattaattgt--cataatttattattttaaatttacatgcgcattaaatacatattaaa
22800492

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 ||||||| | |||||| | | |||| |||||||||||||||||||||
Sbjct: 22800491 aattttattattatatataacaacattatttattttataacataattga 22800443

Score = 83.8 bits (42), Expect = 5e-13
Identities = 66/74 (89%)

Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| |||||||||||||||| ||||||| || ||||| ||||||||||||| |
Sbjct: 49916965 aaaattaattattacaaaatttattatttaaatttatatacacattaaatatacattata
49916906

Query: 5177 aatttttagtggttat 5190
 ||||||||| |||||
Sbjct: 49916905 aatttttagtattat 49916892

Score = 83.8 bits (42), Expect = 5e-13
Identities = 67/74 (90%), Gaps = 1/74 (1%)
Strand = Plus / Minus

Query: 62 ggacaattttgatttctgggttaatgggtgtattaaaaatatcagaaaactttcaaatatc
121
 ||||||| || |||||||||||| ||||||| || ||||||| |||||||||||||||||
Sbjct: 50050520 ggacaacttcgatttctgggttatgggggtcttaaaa-tatcagaaaactttcaaatatc
50050462

Query: 122 tcgagcaggcagtt 135
 | |||||||||||||
Sbjct: 50050461 ttgagcaggcagtt 50050448

Score = 81.8 bits (41), Expect = 2e-12
Identities = 71/81 (87%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataataacaacaaaaattttaaaatacaacaatatggcataa
6639
 ||||||||||||||||||||| ||||| || ||||||||| ||||||||| ||
Sbjct: 4553978 aaaatattttaaatttgaaataataacaacaaaaattttacaaatacaataatatggcgtag
4553919

Query: 6640 aattaatggttggtggcctgag 6660
 | | || ||||||||| |||||
Sbjct: 4553918 attcaacggttggtggcctgag 4553898

Score = 81.8 bits (41), Expect = 2e-12
Identities = 147/181 (81%), Gaps = 1/181 (0%)

Strand = Plus / Minus

Query: 5132 aaaatattatctaaatttgcacatgcacaataataacattagaaatatttagtggtata
5191

|||||
Sbjct: 4766438 aaaatattatgttaaattacatatatacattaaatataaaattaaaaaatttagtggtata
4766379

Query: 5192 ttagtgaaattaattattttataacataattgatgtattagttcagttggtagagcat
5251

|||
Sbjct: 4766378 tataacgacactattta-tttataatataatgtatctattagctcagttggtttgagtat
4766320

Query: 5252 tatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaatta
5311

|
Sbjct: 4766319 ttattaataatgcaagtgcataagttcaatcccttcttggaccattaatttttaaatta
4766260

Query: 5312 a 5312
|
Sbjct: 4766259 a 4766259

Score = 81.8 bits (41), Expect = 2e-12
Identities = 50/53 (94%)
Strand = Plus / Minus

Query: 6421 agagttgaaatcctttgtatttttattttatttgattattataataacataatt 6473
|||||
Sbjct: 6820196 agagttgaaatcctttgtattttcattttatttgattattaaaataaataatt 6820144

Score = 81.8 bits (41), Expect = 2e-12
Identities = 50/53 (94%)
Strand = Plus / Minus

Query: 6421 agagttgaaatcctttgtatttttattttatttgattattataataacataatt 6473
|||||
Sbjct: 29994632 agagttgaaatcgtttgatttttattttatttgatttttaaaataacataatt
29994580

Score = 81.8 bits (41), Expect = 2e-12

Query: 5177 aattttaagtgttatatttaagtqaaattaattatttataacataattga 5225

Score = 79.8 bits (40), Expect = 7e-12

Query: 215 ctaaqctt 222

|||||
Sbjct: 50061043 ataagctt 50061036

Score = 77.8 bits (39), Expect = 3e-11
Identities = 57/63 (90%)
Strand = Plus / Plus

Query: 5130 acaaaatattatctaaatttgcacataacattagaaatatttagtgta
5189

|||||
Sbjct: 1824059 acaaaatattatgtaaatttacatgtacattaaatataaaatataatatttagtgta
1824118

Query: 5190 tat 5192
|||
Sbjct: 1824119 tat 1824121

Score = 77.8 bits (39), Expect = 3e-11
Identities = 72/83 (86%)
Strand = Plus / Minus

Query: 6584 tatttaaatttgaaataatacaacaaaaattttaaaatacaacaatatggcataaaatt
6643

|||||
Sbjct: 18688142 tatttaaatttgaaacaatacaacaaaaatttgaaaatagaaagagtatgagatgaagtc
18688083

Query: 6644 aatggttggtggcctgagcctaca 6666
|||||
Sbjct: 18688082 aatggttggtggcctgagcctaca 18688060

Score = 77.8 bits (39), Expect = 3e-11
Identities = 48/51 (94%)
Strand = Plus / Plus

Query: 5289 cttggatcatatatttttaaattatttgtaaaatatatttttgaaaaaaaa 5339
|||||
Sbjct: 26096865 cttggaccatatttttaaattatttgtaaaatatatttttgaaaaaaaa 26096915

Score = 77.8 bits (39), Expect = 3e-11

Identities = 109/131 (83%), Gaps = 1/131 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| ||| ||||||||||||| ||| ||| ||| | | ||||||||| ||||| |
Sbjct: 29683644 aaaattaatctttataaaaatttattatataa-tttatatgtatattaaatatatattata
29683702

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236
 |||||||||||||||| || | | ||||||||||||| ||| ||||||| | ||||| ||
Sbjct: 29683703 aatttttagtggttatatataataacattaattattttttaataataattgggtctattaattt
29683762

Query: 5237 agttgggttaga 5247
 |||||||||||||
Sbjct: 29683763 agttgggttaga 29683773

Score = 77.8 bits (39), Expect = 3e-11
Identities = 101/120 (84%), Gaps = 5/120 (4%)
Strand = Plus / Minus

Query: 6318 aattgtctatatttgtgttctgtttaaattgaaaacaatattatttttcatatgttggtta
6377
 |||| | ||||||||| |||| | ||||| ||||| ||||||||||| |||||||
Sbjct: 29995040 aattatctatatttatgtttcatttaaactgaaaataatattattttgtatatgttg---
29994984

Query: 6378 attcttaatttcttatgcatattttatgttttatcatttttt-aagagttgaaatccttt
6436
 || ||||||| || ||||||||||| ||||||||| ||||||| |||||||||||||||||
Sbjct: 29994983 -ttgttaattttttttgcatattttttgttttattattttttgaagagttgaaatccttt
29994925

Score = 77.8 bits (39), Expect = 3e-11
Identities = 57/63 (90%)
Strand = Plus / Plus

Query: 5130 acaaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggtta
5189
 ||||||||||||||| ||||||| |||| ||| ||||||||| |||| | |||||||||||||
Sbjct: 48335426 acaaaaatttattatgtaaatttacatgtacattaaatatataaattaaaaatttttagtggtta
48335485

Query: 5190 tat 5192
 |||
Sbjct: 48335486 tat 48335488

Score = 75.8 bits (38), Expect = 1e-10
Identities = 114/137 (83%), Gaps = 3/137 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataataacattaga
5176
 |||| | ||||| | || | ||||| | | |||| | | || | || | ||||| | |||||
Sbjct: 27847842 aaaactaattgtcacacaatttattttgttaaagttttatgtgcattaaataacattaga
27847783

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtat--tagt
5234
 ||||| | ||||| | || | | ||||| | ||||| | ||||| | || | ||||
Sbjct: 27847782 aatttttaattggttat-tataataacattaattattttatattataattgacatattatagt
27847724

Query: 5235 tcagttggtagagcat 5251
 ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
Sbjct: 27847723 tcagttggtagagcat 27847707

Score = 75.8 bits (38), Expect = 1e-10
Identities = 84/100 (84%), Gaps = 7/100 (7%)
Strand = Plus / Minus

Query: 4524 tttagatacctctttggaatacaagggactgatcaacacaagttaataacataataact
4583
 |||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
Sbjct: 50058190 tttaaatacctctttggaatacaaggaactcatcaacccaagttagc-----ataact
50058138

Query: 4584 tccctaacaatctagtagctccacctgttcctcttcaccc 4623
 ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
Sbjct: 50058137 tccctagcaatctagtagctccacctgtttctgttcaccc 50058098

Score = 75.8 bits (38), Expect = 1e-10
Identities = 53/58 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacatta
5174
 |||||
Sbjct: 50372291 aaaattaattattacaaaatttattatctaaatttacatgtacattaaatatatta
50372234

Score = 73.8 bits (37), Expect = 5e-10
Identities = 128/157 (81%), Gaps = 1/157 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 5162666 aaaattaattggtgcaaaaatttattataaaaacttatatgtgtattaaatatatattaaa
5162607

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 5162606 aatttttagtggttatatata-tgacattattttttttataatataattgatttattaattt
5162548

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtca 5273
 |||||
Sbjct: 5162547 aattgattaaaacggttatattaataacatgaaagtca 5162511

Score = 73.8 bits (37), Expect = 5e-10
Identities = 67/76 (88%), Gaps = 2/76 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 19833917 aaaattaattggttacaaaatttattatgttaaactt--atgcgtattaaatatacattaaa
19833860

Query: 5177 aatttttagtggttatat 5192
 |||||
Sbjct: 19833859 aatttttaattggttatat 19833844

Score = 73.8 bits (37), Expect = 5e-10
Identities = 91/109 (83%)

Query: 6600 aatacaacaaaaattttaaaatac-aaacaatatggcataaaaattaatgttgttggc-ct
6657


```

          ||||| ||||| ||||| ||| ||||| ||| || ||||| ||||| |||
Sbjct: 29994465 aatacaac-aaaatttttaatacaaaaaaatatgacattaatttaacggtgttggttt
29994407

```

```

Query: 6658      gagcctacacaatggggg 6675
          | ||||| ||||| |||
Sbjct: 29994406 gtacctacacaatggggg 29994389

```

Score = 71.9 bits (36), Expect = 2e-09
Identities = 115/140 (82%), Gaps = 1/140 (0%)
Strand = Plus / Minus

```

Query: 6682      gacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgtatac
6741
          ||||| ||||| ||| ||||| ||||| ||||| ||||| ||||| |||
Sbjct: 6819927 gacacatggaacatcgcttttagttaccgaattcttggatatccatttcagtgt-tatat
6819869

```

```

Query: 6742      gagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaattcttg
6801
          | ||||| ||| | | ||| ||||| ||| | | |||| | |||| ||| |||
Sbjct: 6819868 gggaggagacaagacgatccttaaaatttcttttcttctctgggtcgaggcagattattg
6819809

```

```

Query: 6802      gcttgtgacatggtgaccaa 6821
          |||| ||| ||||| |||
Sbjct: 6819808 gcttgaaacacggtgaccaa 6819789

```

Score = 71.9 bits (36), Expect = 2e-09
Identities = 57/64 (89%)
Strand = Plus / Minus

```

Query: 5123      aattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttt
5182
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||
Sbjct: 34138371 aattgtcacaaaatttattattcaaatttacatgcacattaaatatgcattagaaatgtt
34138312

```

```

Query: 5183      agtg 5186
          |||
Sbjct: 34138311 agtg 34138308

```

Score = 71.9 bits (36), Expect = 2e-09
Identities = 66/76 (86%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacatag
5175
||||| ||||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42120666 aaaaaataattatcacaaaatttattatgcaaatttatatgtacattaaatataaattag
42120607

Query: 5176 aaatttttagtggtata 5191
||||| ||||| ||||| |||||
Sbjct: 42120606 aaatttttagtggtata 42120591

Score = 71.9 bits (36), Expect = 2e-09
Identities = 96/116 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacataga
5176
||||| ||||| | | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 45446625 aaaattaattataaaaaaatttattatgtaaatttacatgtatattaaatataatataaa
45446684

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
| ||||| ||||| || || ||||| ||||| ||||| ||||| |||||
Sbjct: 45446685 aatttttagtattatataataacgacattaattattttatattataattaatttatta
45446740

Score = 69.9 bits (35), Expect = 7e-09
Identities = 50/55 (90%)
Strand = Plus / Minus

Query: 7294 tgtcccatcgccagccaccatcccatgagagagtcacttttcttggtggaatct 7348
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18377048 tgtcccatcggttgccaccatcccatgagagagtcacttttcttacggaatct
18376994

Score = 69.9 bits (35), Expect = 7e-09
Identities = 83/99 (83%)
Strand = Plus / Minus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
 7101

||||| |||| |||| |||| ||| ||||| ||| ||||| ||||| |||||
 Sbjct: 29994012 gttaattctctcttagaccaagaactgtgtgtcgcacatcaattgaactcaagaacaatgtg
 29993953

Query: 7102 agagtttgcctttttctgtatgtctttcatagccttgtt 7140

|| |||| |||| | ||| |||| ||| |||||
 Sbjct: 29993952 agtatttgcctttctttgtgcgtcttccatggccttgtt 29993914

Score = 69.9 bits (35), Expect = 7e-09
 Identities = 65/75 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacataaatatacattaga
 5176

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 45574176 aaaattaattggtacaaaatttattatgtaaatttatatatgcattaaatatatattaa
 45574235

Query: 5177 aatttttagtggtata 5191

||||| ||||| |||||
 Sbjct: 45574236 aatttaagtgtata 45574250

Score = 69.9 bits (35), Expect = 7e-09
 Identities = 50/55 (90%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattatttataa 5216

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 49360658 taaatatacattaaaaatttttagtggttatatataatggtattaattatttataa
 49360604

Score = 69.9 bits (35), Expect = 7e-09
 Identities = 60/67 (89%), Gaps = 1/67 (1%)
 Strand = Plus / Minus

Query: 4651 ttaatcatcaaacatgcatacctcacttcttcataattctagttggtggaactccaatca
 4710

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 50051416 ttaatcatcaatcatgcagacctcacttcttcgtgag-ctagttggtggaactccagtca
 50051358

Query: 4711 tctcagc 4717
 |||||
Sbjct: 50051357 tctcagc 50051351

Score = 69.9 bits (35), Expect = 7e-09
Identities = 52/57 (91%), Gaps = 3/57 (5%)
Strand = Plus / Minus

Query: 4 ctgaagaagatcaagtgtgtgaaccaaagtgaaaataatgtttagaagccaacacag 60
 |||||||||||||| |||||||||||||| ||||| |||||||||||||
Sbjct: 50061293 ctgaagaagatcaactgtgtgaaccaaagtgaa---aatgttcagaagccaacacag
50061240

Score = 67.9 bits (34), Expect = 3e-08
Identities = 40/42 (95%)
Strand = Plus / Plus

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttGaaaaaaa 5338
 |||||||||||||| |||||||||||||| |||||
Sbjct: 12680987 attaatTTTaaattaatttataaaaatatatttttaaaaaaa 12681028

Score = 67.9 bits (34), Expect = 3e-08
Identities = 61/70 (87%)
Strand = Plus / Minus

Query: 7297 ccccatcgccagccaccatcccatgcgagagtccacttttcttgTggaatcttcctaagc
7356
 ||||||| ||||| ||||| ||||| ||||| || ||||| ||||||||||||| |||
Sbjct: 12909728 ccccatcgTcagccatcatccaatgcaagagttcatttttctcgtggaatcttcctgagc
12909669

Query: 7357 taattaattg 7366
 |||||||
Sbjct: 12909668 caattaattg 12909659

Score = 67.9 bits (34), Expect = 3e-08
Identities = 73/86 (84%)
Strand = Plus / Minus

```
Query: 6393      tgcataatatttatgttttatcatttttt-aagagttgaaatcctttgtatt 6441
                ||||||||||| ||||||||||||||||||| |||||||
Sbjct: 39515563 tgcataatatttttgttttatcattttttgaagagttgaaatcctttgtatt 39515612
```

Score = 67.9 bits (34), Expect = 3e-08
Identities = 52/58 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacatta
5174
 |||||
Sbjct: 42599930 aaaattaattgtcagaaaatttattatctaaatttacctcattaaatatatatta
42599987

Score = 65.9 bits (33), Expect = 1e-07
Identities = 90/109 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 1931244 aaaattaattgtcacaaaatttattatttaaatttacttacgtattaaatatattttaa
1931303

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 ||||
Sbjct: 1931304 aattgtagaatttatataatgacatgaattattttataatataattga 1931352

Score = 65.9 bits (33), Expect = 1e-07
Identities = 66/77 (85%)
Strand = Plus / Minus

Query: 6304 tttttttggttattaattgtctatatttgtgttctgttttaaattgaaaacaatattattt
6363
 |||||
Sbjct: 40459361 ttttttgtgttattaactatatatatatttatgttttgttttaaactgaaaataatattattt
40459302

Query: 6364 ttcatatggttgtaatt 6380
 |
Sbjct: 40459301 tatatatgttattaatt 40459285

Score = 65.9 bits (33), Expect = 1e-07
Identities = 57/65 (87%)
Strand = Plus / Plus

Query: 6603 acaacaaaaatttttaaaatacaacaatatggcataaaattaatggttggcctgagcc
6662
||||| ||||| | ||||| ||||| ||| ||||| |||||
Sbjct: 41395878 acaacaaaatttttaaaattgtaacaatatgacataaacttaacgttggcgtgagcc
41395937

Query: 6663 tacac 6667
|||||
Sbjct: 41395938 tacac 41395942

Score = 65.9 bits (33), Expect = 1e-07
Identities = 90/109 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacataaaatatacattaga
5176
||||| ||||| ||||| ||||| ||| || ||||| || |||||
Sbjct: 43398401 aaaattaattgtcacaaaatttattatttaaatttacatatgcattaaatttaaattaga
43398460

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
||||| ||||| || | ||| ||||| || |||||
Sbjct: 43398461 gattttactggttatataataaacattattttattttattatataattga 43398509

Score = 65.9 bits (33), Expect = 1e-07
Identities = 36/37 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggatcggctacatgga 1679
||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 45503092 aacgccttatccactaggtgggatcggctacatgga 45503128

Score = 63.9 bits (32), Expect = 4e-07
Identities = 47/52 (90%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattagttcagttgggttagagcatt 5252
|||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 55251 attatttattttataatgtaattgatttattagtttagttgggttagagcatt 55302

Score = 63.9 bits (32), Expect = 4e-07
Identities = 63/72 (87%), Gaps = 1/72 (1%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaatta-ttttataacata
5220
||||| ||||||| ||||||| || ||| ||||||| ||| |||||||
Sbjct: 4615315 taaatataatattagaaattttaagtgttatataatgacattaattatTTTTTTTaaacata
4615256

Query: 5221 attgatgtatta 5232
||| || |||||
Sbjct: 4615255 attaatttatta 4615244

Score = 63.9 bits (32), Expect = 4e-07
Identities = 53/60 (88%)
Strand = Plus / Plus

Query: 5214 taacataattgatgtattagttcagttggttagagcattatggttaataatgtgaaagtca
5273
||||| ||||||| ||||||| ||| ||||||| ||||||| |||||||
Sbjct: 4615347 taacataattgacttattagttcagttggttaaaacattatataaataatgaaagtca
4615406

Score = 63.9 bits (32), Expect = 4e-07
Identities = 41/44 (93%)
Strand = Plus / Minus

Query: 5131 caaaatttattatctaaatttgcacataaataacatta 5174
||||| ||||||| ||||| || ||||||| |||||||
Sbjct: 5486547 caaaatttattatctaaatttacatgcgcattaaataacatta 5486504

Score = 63.9 bits (32), Expect = 4e-07
Identities = 101/124 (81%), Gaps = 10/124 (8%)
Strand = Plus / Minus

Query: 6316 ttaattgtctatatttgtgttctgtttaaattgaaaacaatattatTTTTTcatatgttgt
6375
||||| ||||||| ||||| ||||||| ||||| ||||||| |||||||
Sbjct: 6820613 ttaattatctatatttatgttttgtttaaaccgaaaataatattatTTTTTgtatgttgt
6820554


```
Query: 5117      aaaattaattgttacaaaaattttattatctaaatttgcatacacaataaatatacattaga
5176            |||
Sbjct: 43448527 aaaattaattattataaaaattttattatgtaaacttatatgtgtattaaatatacattaga
43448586
```

Query: 5014 ataattttaataaaattatttttatgaataaaataaaaagggtttttattcttaaatttgcttgag
5073

```
|||||
Sbjct: 2466919 ataattttaataaaactattttatgagtaaataaaatgcttcatttttaaaatttgtttag
2466978
```

```
Query: 5074      ccctctcaagtcctt 5088
               |||||
Sbjct: 2466979 gcttttcaagtcctt 2466993
```

Score = 62.0 bits (31), Expect = 2e-06
Identities = 58/67 (86%)
Strand = Plus / Minus

```
Query: 6434      tttgtatttttattttatttgattattataatacataattaaacaacaacttaattgaaa
6493
               |||||
Sbjct: 12181888 tttgtattttcattttctttggtagtaaaatagataattaatcaacaacttaattgatc
12181829
```

```
Query: 6494      ttaaaaa 6500
               |||||
Sbjct: 12181828 ttaaaaa 12181822
```

Score = 62.0 bits (31), Expect = 2e-06
Identities = 52/59 (88%)
Strand = Plus / Minus

```
Query: 6580      aaaatatttaaatTTGaaataatacaacaaaaattttaaaatacaacaatatggcata
6638
               |||||
Sbjct: 12910479 aaaatatttaaatTTgaataaatacacacaattttaaaatacaagaatatgacata
12910421
```

Score = 62.0 bits (31), Expect = 2e-06
Identities = 31/31 (100%)
Strand = Plus / Minus

```
Query: 1643      aacgccttatcccactaggtggggtcggcta 1673
               |||||
Sbjct: 25413230 aacgccttatcccactaggtggggtcggcta 25413200
```

Score = 62.0 bits (31), Expect = 2e-06
Identities = 70/83 (84%)
Strand = Plus / Minus

Query: 6694 atcattttggtttacctgattcttggatatccattttggtgtgtatacgagaggagacat
6753
||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29994348 atcactttggttaactcgattctcggatatccattttgatgtgtatagtagaggagtcac
29994289

Query: 6754 gacaacctttagaatttcttttc 6776
||| ||| ||| ||||| |||||
Sbjct: 29994288 gacgacccttaaaatttattttc 29994266

Score = 62.0 bits (31), Expect = 2e-06
Identities = 88/107 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| ||||| || ||||| ||||| || ||||| ||| || ||||| ||||| ||
Sbjct: 35000477 aaaattaattgatataaaaatttattatgaatttatatgtgtattaaatacacattaaa
35000418

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
|| ||||| ||||| || ||| || ||||| ||||| |||||
Sbjct: 35000417 aaatttagtattatatataatgacataaattattttataatataatt 35000371

Score = 62.0 bits (31), Expect = 2e-06
Identities = 43/47 (91%)
Strand = Plus / Minus

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttt 1749
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38996992 tcaagtaccatacttctatccaaattattaagttcagatcattttt 38996946

Score = 62.0 bits (31), Expect = 2e-06
Identities = 58/67 (86%)
Strand = Plus / Plus

Query: 5157 cacaataaatatacattagaaatttttagtggttatatttagtgaaattaattattttataa
5216

```
Query: 5290      ttggatcattaatttttaaatatttgtaaaatatatTTTTTgaaaaaaaa 5339
                |||||
Sbjct: 19499841 ttggaccattaatttttaaatataatcataaattatatTTTTTgaaaaaaaa 19499890
```

Score = 60.0 bits (30), Expect = 7e-06
Identities = 57/66 (86%)
Strand = Plus / Minus

Query: 6932 aacaacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacct
6991
||||| ||||||||||||| ||||||| ||||||| ||||||| ||||||| |||||
Sbjct: 29994119 aacaaaaacatgagaacatggcatgtgcaatttttggaatttatcacagtcacatcacct
29994060

Query: 6992 ttcatc 6997
|||||
Sbjct: 29994059 ttcatc 29994054

Score = 60.0 bits (30), Expect = 7e-06
Identities = 55/62 (88%), Gaps = 1/62 (1%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221
||||| ||||||||||||||||||||||||| || | ||||||||||||| |||||||
Sbjct: 37836564 taaatacacattagaaattttagtggttatataaacaacattaattatttt-taacataa
37836506

Query: 5222 tt 5223
||
Sbjct: 37836505 tt 37836504

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 6435 ttgtattttttattttatttgattattataataacataattaaa 6476
||||||| ||||||||||||||||| ||||||| |||||
Sbjct: 39030130 ttgtattttcattttatttgattattaaaatacatattttaa 39030171

Score = 60.0 bits (30), Expect = 7e-06
Identities = 86/101 (85%), Gaps = 4/101 (3%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaattacaa 6550
|||||
Sbjct: 39030170 aaattaaaaaa-atacatgtaaccaacaagttgaattgaactaaaatattttaatatataa 39030228

Query: 6551 aatagatatgaaattacaaacaatagaacaaaatattttaa 6591
||| |||
Sbjct: 39030229 aat--atataaaaattaccaacaata-aataaaaatattttaa 39030266

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggctcggctacatggatca 1682
|||||
Sbjct: 40954328 ttatcccactaggtgaggtcggctacatggatca 40954295

Score = 60.0 bits (30), Expect = 7e-06
Identities = 33/34 (97%)
Strand = Plus / Plus

Query: 5297 attaatTTTaaattaatttGTaaaatatattttt 5330
|||||
Sbjct: 49360777 attaatTTTaaattgatttGTaaaatatattttt 49360810

Score = 60.0 bits (30), Expect = 7e-06
Identities = 30/30 (100%)
Strand = Plus / Minus

Query: 338 aggaaaaatacatagaaaaagagggaacaa 367
|||||
Sbjct: 50053258 aggaaaaatacatagaaaaagagggaacaa 50053229

Score = 58.0 bits (29), Expect = 3e-05
Identities = 77/93 (82%)
Strand = Plus / Minus

Query: 5132 aaaatttattatctaaatttgcacatgcacaataaataacattagaaatTTtagtggtata
 5191
 ||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 36560031 aaaatttattatttaaatttacatgcgcattaaatattcattaaaaattgtagtgatatg
 36559972

Query: 5192 tttagtgaattaattatTTTataacataattg 5224
 | |||| | || | ||||| ||||| |||||
 Sbjct: 36559971 tatagtaacatgattaattTTTataagataattg 36559939

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 35/37 (94%)
 Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682
 ||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 39722639 gccttatcccactaggtgagttcggctacatggatca 39722603

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 32/33 (96%)
 Strand = Plus / Plus

Query: 6561 aaattacaaacaatagaacaaaatattTtaaatt 6593
 ||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 40572195 aaattacaaacaatagaacataatattTtaaatt 40572227

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 79/93 (84%), Gaps = 2/93 (2%)
 Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaataacattagaaatTTtagtggtta
 5189
 ||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 48335047 acaaattttattatataaaattta-atgtacattaaatataaaattaaaaattTTtagtggtta
 48334989

Query: 5190 tatttagtgaaattaattatTTTataacataat 5222
 ||| || ||| | || ||| ||||| ||||| |||||
 Sbjct: 48334988 tatctaatagacactattta-tttataacataat 48334957

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 4 ctgaagaagatcaagtgtgtgaaccaaagtgaaaata 40
||||| ||||||||||||||||||||||||| |||||
Sbjct: 50053834 ctgaaaaagatcaagtgtgtgaaccaaagtcaaaata 50053798

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 3920 tttcacagataacttttaatgttatctatgtattctca 3956
||||| ||||||||| ||||||||| ||||||||| |||||
Sbjct: 50059466 tttcacagataatttttaatgttttctatgtattctca 50059430

Score = 58.0 bits (29), Expect = 3e-05
Identities = 32/33 (96%)
Strand = Plus / Plus

Query: 1739 agatccttttttgataaacctctcttatagtcttt 1771
||||| ||||||||| ||||||||| ||||||||| |||||
Sbjct: 50059941 agatccttttttgataaacctctcttatagtcttt 50059973

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacaca 5160
||||| ||||||||| ||||||||| ||||| ||||||| ||| |||||
Sbjct: 29957072 aaaattaattgttacaaaattaattattttaaatttacatccaca 29957029

Score = 56.0 bits (28), Expect = 1e-04
Identities = 58/68 (85%)
Strand = Plus / Plus

Query: 6600 aatacaacaaaaatttttaaatacaacaatatggcataaaattaatgttggcctga
6659
||||| |||| ||||||||| ||||| ||| ||||||| ||||| ||| ||||| |||

Sbjct: 39515737 aatacaataaaaattttttaaatacaaaataacatgacataaatttaatatgtggtggctaga
39515796

Query: 6660 gcctacac 6667
|||||||
Sbjct: 39515797 gcctacac 39515804

Score = 56.0 bits (28), Expect = 1e-04
Identities = 65/76 (85%), Gaps = 1/76 (1%)
Strand = Plus / Minus

Query: 56 cacagtggacaatttttgatttctggttaatgggtgtattaaaaatatcagaaaactttca
115
||||| ||||||||||||||||||||| ||||| | | ||||||||||||||| | |
Sbjct: 50057126 cacagaggacaatttttgatttctggtttatgggtatcat-gaaatatcagaaaaccatga
50057068

Query: 116 aatatctcgagcaggc 131
||||||| |||||||
Sbjct: 50057067 aatatcttgagcaggc 50057052

Score = 56.0 bits (28), Expect = 1e-04
Identities = 31/32 (96%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
||||||||||||||||||||||||||| |||||
Sbjct: 50693064 aaaattaattgttacaaaatttattatataaa 50693033

Score = 54.0 bits (27), Expect = 4e-04
Identities = 48/55 (87%)
Strand = Plus / Minus

Query: 7185 cttctctcccccttttggttgaacaatgcattacacctagtatagggtgattttac 7239
||||||| ||| ||||||||||| ||||||| || |||||||||||
Sbjct: 12909851 cttctctccctcttttggttgaacaatgtgttacacctaacaatgattttac
12909797

Score = 54.0 bits (27), Expect = 4e-04
Identities = 48/55 (87%)

Strand = Plus / Minus

```
Query: 7185      cttctctcccccttttggttgaacaatgcattacacctagtatagggtgattttac 7239
                ||||| |||| |||| |||||||||||||||||||| ||| ||||||||||||
Sbjct: 18687518 cttctgtccctcttttggttgaacaatgcattacaccttagatatggtgattttac
18687464
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 27/27 (100%)
Strand = Plus / Minus

```
Query: 1643      aacgccttatcccactaggtgggggtcg 1669
                |||||||||||||||||||||||||
Sbjct: 20167147 aacgccttatcccactaggtgggggtcg 20167121
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 54/63 (85%)
Strand = Plus / Plus

```
Query: 5130      acaaaatttattatctaaatttgcattgcacaataaatatacattagaaatttttagtgтта
5189
                |||| ||||||||| ||||||| || ||| ||||||||| |||| |||||||||||||
Sbjct: 45394119 acaagatttattatgtaaatttatatatacattaaatataaaattaaaaatttttagtgтта
45394178
```

```
Query: 5190      tat 5192
                |||
Sbjct: 45394179 tat 45394181
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 43/47 (91%), Gaps = 1/47 (2%)
Strand = Plus / Plus

```
Query: 6396      atatttttatgtttttatcatttttt-aagagttgaaatcctttgtatt 6441
                ||||||| ||||||||| ||||||| ||||||||| |||||||||
Sbjct: 47284931 atattttttggtttttatccttttttgaagagttgaaatcctttgtatt 47284977
```

Score = 54.0 bits (27), Expect = 4e-04
Identities = 39/42 (92%), Gaps = 2/42 (4%)
Strand = Plus / Minus

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggctcggtacatggatca 1682
 |||||
Sbjct: 37727818 ttatcccactaggtgaggtcggtacattgatca 3772785

Score = 52.0 bits (26), Expect = 0.002
Identities = 50/58 (86%)
Strand = Plus / Plus

Query: 7309 ccaccatcccatgcgagagtcacttttcttgtggaatcttcctaagctaattaattg
7366
 |||||
Sbjct: 39516492 ccaccatcccatgtgagagtcactcgtctcgtgaaatcttgtaagccaattaattg
39516549

Score = 52.0 bits (26), Expect = 0.002
Identities = 47/54 (87%)
Strand = Plus / Minus

Query: 5170 cattagaaatttttagtgttatatatttagtgaaattaattattttataacataatt 5223
 |||||
Sbjct: 44812304 cattggaaattttaatgttatgtatagcaaaattatttattttataacataatt
44812251

Score = 50.1 bits (25), Expect = 0.007
Identities = 46/53 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatata 5169
 |||||
Sbjct: 1931050 aaaattaactgtcataaaatttattatctaaatttacatgagcattaataata 1930998

Score = 50.1 bits (25), Expect = 0.007
Identities = 49/57 (85%)
Strand = Plus / Minus

Query: 7184 acttctctcccccttttggtgaacaatgcattacacctagtataggttgattttacc 7240
 |||||
Sbjct: 4746908 acttctctcccttttttaggtgaacaatatattacatcttatataggttgattttacc
4746852

Score = 50.1 bits (25), Expect = 0.007
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 5298 ttaatttttaaattaatttgtaaaatatatTTTTGAAAAAA 5338
 ||||||| ||||||| ||||| |||||||
Sbjct: 4957994 ttaatttttaaattaattcataaaatatTTTTTAAAAAA 4957954

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 674 aacttaagattggttgaagttattgatct 702
 ||||||| ||||||| ||||||| |||||||
Sbjct: 14281636 aacttaagtttggttgaagttattgatct 14281608

Score = 50.1 bits (25), Expect = 0.007
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 7297 ccccatcgccagccaccatcccatgCGAGAGTCCACTTTTC 7337
 ||||||| | ||||||| ||||||| ||||||| |||||
Sbjct: 18687387 ccccatcgTCGGCCACCATCCCATGCAAGAGTCCACTTTTC 18687347

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 1646 gccttatccactaggtggggtcggctac 1674
 ||||||| ||||||| ||||||| |||||
Sbjct: 21290755 gccttatccactaggtgaggtcggctac 21290727

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Minus

Query: 5318 aaaatatatTTTTGAAAAAAATTATAAAAAA 5350
 |||| | ||||||| ||||||| ||||||| |||||

Sbjct: 24272986 aaaacatatTTTTTgaaaaaaaaattaaaaaaaaa 24272954

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Plus

Query: 674 aacttaagattggttgaagttattgatct 702
||||||| |||||||||||||||||
Sbjct: 28009112 aacttaagtttggttgaagttattgatct 28009140

Score = 50.1 bits (25), Expect = 0.007
Identities = 50/57 (87%), Gaps = 1/57 (1%)
Strand = Plus / Minus

Query: 5169 acattagaaatTTT-agtggttatTTTtagtgaaattaattTTTTataacataattg
5224
||||||| ||||||| || || ||||| |||||||
Sbjct: 29957031 acattagaaatTTTtagtggttatataaacaacattTTTattTTTataacataattg
29956975

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Minus

Query: 7308 gccaccatcccatgCGAGAGTccactTTTcttg 7340
||||||| ||||||| |||||||
Sbjct: 29993856 gccaccatcccatgcaagagtccattTTTcttg 29993824

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 5294 atcattaatTTTaaattaatttgTaaaatatTTTT 5330
||||| ||||||| || |||||||
Sbjct: 37836468 atcattagTTTaaattattTTTataaaaatatTTTT 37836432

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)

Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaat 5149
 |||||
Sbjct: 45944558 aaaattaattggttacaaaatctattatgtaa 45944526

Score = 50.1 bits (25), Expect = 0.007
Identities = 62/74 (83%), Gaps = 4/74 (5%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataacattaga
5176
 |||||
Sbjct: 47123391 aaaattaattatcataaaatttattatttaatttacatgcgc---aatatacatataa
47123336

Query: 5177 aatttttagtggttat 5190
 ||||
Sbjct: 47123335 aattgttagtggttat 47123322

Score = 50.1 bits (25), Expect = 0.007
Identities = 40/45 (88%)
Strand = Plus / Minus

Query: 4524 tttagatacctctttggaatacaagggactgatcaacacaagtta 4568
 ||||
Sbjct: 50047457 tttaaatacctctttgcaatacaaggaactcatcaaccaagtta 50047413

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 4 ctgaagaagatcaagtgtgtgaaccaaag 32
 ||||
Sbjct: 50050597 ctgaacaagatcaagtgtgtgaaccaaag 50050569

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 5 tgaagaagatcaagtgtgtgaacca 29
 |||||
Sbjct: 50057199 tgaagaagatcaagtgtgtgaacca 50057175

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 4524 tttagatacctctttggaatacaagggactgatcaac 4560
 |||| |
Sbjct: 50062184 tttaaatacctctttggaatacaaggaactcatcaac 50062148

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 1652 tcccactaggtggggtcggctacatggatcaa 1683
 |||||
Sbjct: 1914807 tcccactaggtggagttggctacatggatcaa 1914776

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 7186 ttctctcccccttttggttgaacaatgcattacacct 7221
 |||||
Sbjct: 4553354 ttctctccctcttttggttgagcaatgcattacacct 4553319

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||
Sbjct: 9921372 ttttttttaaaaaaaaaaaaaaaca 9921395

Score = 48.1 bits (24), Expect = 0.026

```
Query: 5120      attaattgttacaaaatttattatctaaattt 5151
               |||||
Sbjct: 19834013  attaattgttagaaaatttattatgtaaattt 19834044
```

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5328 tttgaaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||
Sbjct: 33864736 tttgaaaaaaaaaattataaaaaaa 33864713

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggcta 1673
 |||||||||||||||||| ||||||||
Sbjct: 38830078 gccttatcccactaggtgaggtcggcta 38830105

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Minus

Query: 6431 tcctttgtatTTTTATTTTATTtgattattataatacata 6470
 ||||||| || | |||||||||||||||| |||||||
Sbjct: 38913931 tcctttgtgttctcattttatttgattattaaaatacata 38913892

Score = 48.1 bits (24), Expect = 0.026
Identities = 37/40 (92%), Gaps = 1/40 (2%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggtcggctacatggatcaacttcc 1688
 ||||| ||||||||| ||| ||||||||||||||||
Sbjct: 38997035 ttatcctactaggtggg-tcggttacatggatcaacttcc 38996997

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggtcggctacatggatca 1682
 ||||||||||||||| | ||||||||||||||||

Sbjct: 40668180 ccttatcccactaggggatgtcggctacatggatca 40668145

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 5327 ttttgaaaaaaaaaattataaaaaaatga 5354
||||| ||||||||||||||||||
Sbjct: 41131242 ttttgacaaaaaaattataaaaaaatga 41131215

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Plus

Query: 5299 taatttttaaattaatttgtaaaatatatTTTTGAAAAAA 5338
||||| ||||||||||||||| |||| ||||||||||| |||
Sbjct: 42599990 taatttttaaattaatttcataaaaacatatTTTTgaataaaa 42600029

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatggatcaa 1683
||||| ||||||||||| ||| | |||||||||||
Sbjct: 44043391 cttatcccactaggttgggttgactacatggatcaa 44043426

Score = 48.1 bits (24), Expect = 0.026
Identities = 90/112 (80%)
Strand = Plus / Minus

Query: 5219 taattgatgtattagttcagttggttagagcattatgttaataatgtgaaagtcAAAAGT
5278
||||| || ||||| ||||||| ||||| ||||||| ||||||| | ||| ||| ||
Sbjct: 45997650 taattaatttattaattcagttgattagaacattatattaataatataaaaaatcatatgt
45997591

Query: 5279 tcaattcttacttggtatcattaatttttaaattaatttgtaaaatatatTTTT 5330
| || |||| | |||||||||||||||||| || ||||| |||||||
Sbjct: 45997590 ttaaaacttatataaatcattaatttttaaattatttcataaaaacatatTTTT 45997539

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaaattaatta 6075
|||||
Sbjct: 2178630 aaataataaaaaaaaaaattaatta 2178652

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5164 aatatacattagaaaatttttagtggttat 5190
|||||
Sbjct: 4807397 aatatgcattagaaaatttttagtggttat 4807423

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaattt 5151
|||||
Sbjct: 11786735 aaaattaattattataaaaatttattatataaaattt 11786701

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 6358 ttatttttcatatggttggttaatt 6380
|||||
Sbjct: 12181814 ttatttttcatatggttggttaatt 12181792

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 7401 atatttttattataaaacaaaca 7423

```

|||||
Sbjct: 40892168 atattttttattataaaaacaaaca 40892146
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

```

Query: 5319      aaatatatttttgaaaaaaaaattataaaaaaatg 5353
                |||||
Sbjct: 42016506 aaatatatttttgaataaaaaattcaaaaaaatg 42016472
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

```

Query: 5117      aaaattaattggttacaaaatttattatctaaattt 5151
                |||||
Sbjct: 43373558 aaaattaattattataaaaatttattatgtaaattt 43373524
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

```

Query: 1643      aacgccttatccactaggtggggtcggcta 1673
                |||||
Sbjct: 44460134 aacgccttatctcattaggtggggtcggcta 44460164
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 38/43 (88%)
Strand = Plus / Plus

```

Query: 5117      aaaattaattggttacaaaatttattatctaaatttgcac 5159
                |||||
Sbjct: 44812557 aaaattaattatcataaaaatttattatttaaatttacac 44812599
```

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaaaacaa 5571
 |||||
Sbjct: 45998293 ttttttttaaaaaaaaaaaaaaaacaa 45998315

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 4532 cctcttttgaataacaagggactgatcaacacaagt 4566
 ||||| |||||
Sbjct: 50051513 cctcttaggaataacaagggactcatcaaccaagt 50051479

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 4651 ttaatcatcaaacatgcatacctcacttctt 4681
 ||||| |||||
Sbjct: 50062074 ttaatcatcaatcatgcagacctcacttctt 50062044

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggctcggtacatgg 1678
 ||||| |||||
Sbjct: 728818 ttatcccactaggtgaggtcgactacatgg 728789

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5316 gtaaaatatatTTTTTgaaaaaaaaaat 5341
 ||||| |||||
Sbjct: 1823315 gtaaaatatatTTTTTgaaaaaaaaaat 1823290

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5335 aaaaaattataaaaaaatgaat 5356
 ||||||||||||||||||||
Sbjct: 10006590 aaaaaattataaaaaaatgaat 10006569

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaagt 5573
 |||||||||||||||||||| ||||
Sbjct: 10315038 ttttttttaaaaaaaaaaaaaataagt 10315013

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||||
Sbjct: 12925584 ttttttttaaaaaaaaaaaaaaac 12925605

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
 ||||||||||||||||||||
Sbjct: 14004991 ttttttttaaaaaaaaaaaaaaac 14004970

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 5317 taaaatatatTTTTTgaaaaaaaaattataaaaaa 5350
 ||||||| ||||| ||||||||||||||||
Sbjct: 17654506 taaaatatctTTTTTgaaaaaaaaattataaaaaa 17654473

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 6281 tttttaaattggttgtatttttatttttt 6310
 |||| | |||| |||| | |||| |||| ||||
Sbjct: 18378510 tttttaaattggttgtatttttatttttt 18378481

Score = 44.1 bits (22), Expect = 0.41
Identities = 43/50 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaat 5166
 |||| | |||| |||| | |||| |||| | ||||
Sbjct: 24274029 aaaattaattgtcataaaaatttattgtttaatttatatgcacattaat 24273980

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaac 5569
 |||| | |||| |||| | |||| |||| | ||||
Sbjct: 30748349 tttttttttaaaaaaaaaaaaaaac 30748370

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggtcggctacatggatca 1682
 |||| | |||| |||| | |||| |||| | ||||
Sbjct: 33101460 ttatcccactaggtgaggtcacctacatggatca 33101427

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtgttata 5191

|||||
Sbjct: 33415559 taaatatacattggaaatttttagttttata 33415530

Score = 44.1 bits (22), Expect = 0.41
Identities = 52/62 (83%)
Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattgatgtatttagttcagttggtagagcattatgttaat
5260

|||||
Sbjct: 34138272 attatttattttgtaacgtaattgattcatttagcttagttggtagagcgttgtgataat
34138213

Query: 5261 aa 5262
 ||
Sbjct: 34138212 aa 34138211

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 35312766 aactttttttttaaaagaaaaaaaaaca 35312791

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 38395655 aactttttttttaaaaaaaaaaaaaaca 38395680

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 40320809 cttttttttttaaaaaaaaaaaaaa 40320830

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 41272803 aaattaaaaaatatatatttaa 41272824

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 41329898 cttttttttaaaaaaaaaaaaaa 41329919

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 43874134 aaattaaaaaatatatatttaa 43874113

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgatacc 4783
||||||| |||||
Sbjct: 44181124 taactgttaatctttttattgatacc 44181149

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggctcggctacatggatca 1682
 ||||| ||||| ||||| |||||
Sbjct: 45183583 ttatcccactaggtgaggtcgtttacatggatca 45183550

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5567
 ||||| ||||| ||||| |||||
Sbjct: 49394670 actttttttttaaaaaaaaaaaaaa 49394691

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5201 attaattatttttataacataattgat 5226
 ||||| ||||| ||||| |||||
Sbjct: 49412878 attaattatttttataatataattgat 49412853

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| |||||
Sbjct: 50176340 cttttttttttaaaaaaaaaaaaaa 50176361

Score = 42.1 bits (21), Expect = 1.6
Identities = 90/113 (79%)
Strand = Plus / Plus

Query: 5136 tttattatctaaatttgcatgcacaataaatatacattagaaattttagtggttatattta
5195
 ||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 1124763 tttattatgtaaatttacatgttcattaaatatattttaaaaaatttaattattatatata
1124822

Query: 5196 gtgaaattaattatttttataacataattgatgtattagttcagttggttagag 5248
 | ||||| ||||| | ||||| ||||| ||||| |||||

Sbjct: 1124823 acaacattaattatTTTTacaacataattaacctattaggtcagtcgattagag 1124875

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 1347336 tttttttttaaaaaaaaaaaaaa 1347316

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatatttta 6511
|||||
Sbjct: 2196804 aaattaaaaaatatatatttta 2196784

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggtcggcta 1673
|||||
Sbjct: 2612135 ttatcccactaggtgaggtcggcta 2612111

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 3849185 cttttttttaaaaaaaaaaaaaa 3849205

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5321 atatatttttgaaaaaaaaattata 5345
 ||||| |||||
Sbjct: 3891154 atatatttatgaaaaaaaaattata 3891130

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 6292 tttgtatttttatttttttgttattaat 6320
 ||| ||||| |||||
Sbjct: 5444036 tttgaatttttattcttttgttattaat 5444064

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 2437 gcatctcggcgctatctcttg 2457
 |||||
Sbjct: 5789247 gcatctcggcgctatctcttg 5789267

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 6618452 ttttttttaaaaaaaaaaaaaa 6618432

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaa 5565
 |||||
Sbjct: 9526915 aacttttttttaaaaaaaaaaaaa 9526895

Score = 42.1 bits (21), Expect = 1.6

Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5552 ttttaaaaaaaaaaaaaacaag 5572
 ||||||||||||||||||
Sbjct: 9838148 ttttaaaaaaaaaaaaaacaag 9838128

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5327 ttttgaaaaaaaaaattataaa 5347
 ||||||||||||||||||
Sbjct: 13165592 ttttgaaaaaaaaaattataaa 13165612

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaa 5565
 ||||||||||||||||||
Sbjct: 13216209 aacttttttttaaaaaaaaaaa 13216189

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5571
 ||||||||| ||||||||||||||
Sbjct: 17489354 ctttttttttgaaaaaaaaaaaaa 17489330

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 18518265 ttttttttaaaaaaaaaaaaaa 18518245

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttt 6284
|||||||
Sbjct: 21967089 cttttttttttgttttgtttt 21967109

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 2585 aatattttttttctttctaaa 2605
|||||||
Sbjct: 22262427 aatattttttttctttctaaa 22262447

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5544 gaacttttttttaaaaaaaaaa 5564
|||||||
Sbjct: 22999643 gaacttttttttaaaaaaaaaa 22999663

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 26439694 ttttttttaaaaaaaaaaaaaa 26439674

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||

Sbjct: 27276242 tttttttttaaaaaaaaaaaaaa 27276222

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 30267138 tttttttttaaaaaaaaaaaaaa 30267158

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 33232816 tttttttttaaaaaaaaaaaaaa 33232796

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5550 tttttttaaaaaaaaaaaaaacaagtaataaaaaa 5582
||||| ||| |||
Sbjct: 33501381 tttttttaaaaaaaataaaaaaaataataaaaaa 33501349

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatttttga 5332
||||| |||
Sbjct: 34054759 attaatttgtaaaacatatatttttga 34054735

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgt 5317
 |||||||
Sbjct: 34797466 attaatttttaaattaatttgt 34797446

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5024 taaattattttatgaataaat 5044
 |||||||
Sbjct: 34805475 taaattattttatgaataaat 34805495

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 35500775 ttttttttaaaaaaaaaaaaaa 35500795

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgtttgtttt 6284
 |||||||
Sbjct: 37663373 cttttttttttgtttgtttt 37663393

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaac 5569
 ||||||| |||||||
Sbjct: 40627637 aactttttcttaaaaaaaaaaaaaac 40627613

Score = 42.1 bits (21), Expect = 1.6

Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1698 ttctatcaagtaccatacttc 1718
 |||||
Sbjct: 42196487 ttctatcaagtaccatacttc 42196467

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5292 ggatcattaatttttaaattaatttgtaaaatat 5324
 |||| |
Sbjct: 43373802 ggattattaatttttaaattattttataaaatat 43373834

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 43630502 tttttttttaaaaaaaaaaaaaa 43630522

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 44007788 tttttttttaaaaaaaaaaaaaa 44007768

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 44653681 tttttttttaaaaaaaaaaaaaa 44653701

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaaattaattatt 6077
||||||| |||||||||
Sbjct: 45451094 aaataatataaaaaaattaattatt 45451070

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
||||||| |||||||||
Sbjct: 47084174 ttttttttaaaaaaaaaaaaaa 47084194

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
||||||| |||||||||
Sbjct: 47881553 ttttttttaaaaaaaaaaaaaa 47881533

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6439 atttttattttatttgattattata 6463
||||||| |||||||||
Sbjct: 48194541 atttttattttatttattattata 48194565

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

Query: 1640 acaaacgccttatcccactaggtggggctcggtacat 1676
||||| ||||||||| ||| | |||||

Sbjct: 48205118 acaaatgccttatcccactaggtgaggttgactacat 48205154

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 48287288 cttttttttaaaaaaaaaaaaaa 48287268

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 48532922 tttttttttaaaaaaaaaaaaaa 48532942

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5565
|||||
Sbjct: 48902800 aactttttttttaaaaaaaaaaaaaa 48902780

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 49550977 tttttttttaaaaaaaaaaaaaa 49550957

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggctcggtaca 1675
|||||||
Sbjct: 50002422 ccttatcccactaggggaggtcggtaca 50002394

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 450 agaaccagagtttgtaattcagcttgat 478
|||||
Sbjct: 50045812 agaacctgagtttagtaattcagcttgat 50045784

Score = 42.1 bits (21), Expect = 1.6
Identities = 51/61 (83%)
Strand = Plus / Minus

Query: 279 tggttcatatcagctgagttgcagacttagctgctagcatttcacgttgtgaatgcaaga
338
|||||||
Sbjct: 50046072 tggttcatatcagttgaattgcagacttggctttcatcatatctcgttgtgaatgaaaga
50046013

Query: 339 g 339
|
Sbjct: 50046012 g 50046012

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 4651 ttaatcatcaaacatgcatacctcacttcttca 4683
|||||||
Sbjct: 50047355 ttaatcatcaatcatgcagacttcacttcttca 50047323

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 762 ttgtgactgaattgtggcaatgtaacacctggacttt 798

Query: 6268 tttttttgttttgttttaaaattg 6291
 ||||||||||||||||| |||||
Sbjct: 4078606 tttttttgttttgttttcaaattg 4078583

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||| |||||
Sbjct: 4104150 tttttttttaaaaaaaaaaaaaa 4104169

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||| |||||
Sbjct: 4463584 tttttttttaaaaaaaaaaaaaa 4463565

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaa 5565
 ||||||||||||||||| |||||
Sbjct: 4537127 actttttttttaaaaaaaaaaaaa 4537146

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5303 tttaaattaatttgtaaaatatatTTTT 5330
 ||||||||| ||| |||||||||||||
Sbjct: 4615435 tttaaattatTTTataaaatatatTTTT 4615462

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6492 aattaaaaaatatatattta 6511
|||||||
Sbjct: 4777720 aattaaaaaatatatattta 4777701

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
|||||||
Sbjct: 4973468 aaaaaaaaaattataaaaaaa 4973449

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 542 tttaattagtttaataatt 561
|||||||
Sbjct: 5042674 tttaattagtttaataatt 5042693

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaa 5565
|||||||
Sbjct: 5272294 acttttttttaaaaaaaaaa 5272313

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 6039 agttttttttatccaaataataaaaaaa 6066
||||||| || |||||
Sbjct: 5524271 agttttttttatacacataataaaaaaa 5524298

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 5811223 tttttttttaaaaaaaaaaaaaa 5811204

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 5811208 tttttttttaaaaaaaaaaaaaa 5811227

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2572 taaatttgtaaataatatatt 2591
 ||||||||||||||||||
Sbjct: 7443619 taaatttgtaaataatatatt 7443600

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||
Sbjct: 7935297 aaaaaaaaaattataaaaaaa 7935278

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 7398 caaatatttttattataaaacaaa 7421

|||||
Sbjct: 8466513 caaatatttttattttaaaacaaa 8466536

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5326 tttttgaaaaaaaaattata 5345
|||||
Sbjct: 9805460 tttttgaaaaaaaaattata 9805441

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaa 5571
|||||
Sbjct: 9923906 ttttttttaaaaaaaaaataacaa 9923883

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5320 aatatatttttgaaaaaaaaa 5339
|||||
Sbjct: 11790143 aatatatttttgaaaaaaaaa 11790124

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatt 5314
|||||
Sbjct: 12376963 tcattaatttttaaattaatt 12376944

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 12816986 aaaaaaaaaattataaaaaaa 12816967

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 12822079 aaaaaaaaaattataaaaaaat 12822098

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 ||||| ||| |||||
Sbjct: 13222704 aaaattaattattataaaaatttattatataaa 13222673

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5551 tttttaaaaaaaaaaaaaaca 5570
 |||||
Sbjct: 14123162 tttttaaaaaaaaaaaaaaca 14123181

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattatt 5032
 |||||
Sbjct: 14925029 aataattttaataaattatt 14925010

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5536 ttgttattgaactttttttt 5555
 ||||||||||||||||
Sbjct: 15802732 ttgttattgaactttttttt 15802751

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6054 aataataaaaaaaaaattaattatt 6077
 |||||||||||||||| |||||
Sbjct: 16385281 aataataaaaaaaaaattagttatt 16385258

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5334 aaaaaaattataaaaaaatg 5353
 ||||||||||||||||
Sbjct: 17381124 aaaaaaattataaaaaaatg 17381105

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattg 5156
 |||||||| | |||||||||||||| |||||| ||||
Sbjct: 19477571 aaaattaatcatcacaaaatttattatgttaaatttacattg 19477610

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5165 atatacattagaaatttttagtggttatat 5192
 |||||||||||||||| | |||||
Sbjct: 19499718 atatacattagaaatttttaattattatat 19499745

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 23340826 ttttttttaaaaaaaaaaaaaa 23340845

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttatttt 4900
 ||||||||||||||||||
Sbjct: 24410684 ttttcttttatttttatttt 24410665

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
 ||||||| ||||||||||||||||
Sbjct: 26514661 aacttttctttaaaaaaaaaaaaaa 26514684

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5759 aaaagatccttaaacctttaattgaaaaa 5786
 |||||||||||||| |||||||| |||||
Sbjct: 27686738 aaaagatccttaagctttaattaaaaaa 27686765

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567

|||||
Sbjct: 29615204 ttttttttaaaaaaaaaaaaaa 29615223

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 29669515 ttttttttaaaaaaaaaaaaaa 29669534

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5564
|||||
Sbjct: 30132140 aacttttttttaaaaaaaaaaaaaa 30132121

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6143 cttaattacattttttttata 6162
|||||
Sbjct: 30328184 cttaattacattttttttata 30328165

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6114 ttttttccttagttaagaaa 6133
|||||
Sbjct: 31515756 ttttttccttagttaagaaa 31515775

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgttt 6283
|||||||
Sbjct: 32064752 cttttttttttgttttgttt 32064771

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaa 5564
|||||||
Sbjct: 32438421 aacttttttttaaaaaaaaaa 32438402

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||||
Sbjct: 33232801 ttttttttaaaaaaaaaaaaaa 33232820

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtg 1663
||||| |||||
Sbjct: 33423141 acaaaagccttatcccactaggtg 33423118

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 33642151 ttttttttaaaaaaaaaaaaaa 33642132

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 34963722 ttttttttaaaaaaaaaaaaaa 34963741

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6443 ttattttatttgattattat 6462
 |||||
Sbjct: 35313887 ttattttatttgattattat 35313868

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaat 5149
 ||||| ||||| |||||
Sbjct: 35325052 aaattaattaatacaaaatttagtatctaaat 35325021

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 ||||| |||||
Sbjct: 35442192 ttttttttaaaaaaaaaaataaaca 35442215

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 36989788 ttttttttaaaaaaaaaaaaaa 36989807

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 ||||||||||||||||| |||||
Sbjct: 37039636 tttttttttaaaaaaaaaataaaca 37039613

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgtttggttt 6284
 |||||||||||||||||
Sbjct: 37327633 ttttttttttgtttggttt 37327614

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||||||||||||||
Sbjct: 37625031 aaattaaaaaatatatattt 37625012

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||||||||||||||
Sbjct: 38127233 ttttttttaaaaaaaaaaaaaa 38127252

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 3888 tttgtaaaaatgatttttttttaa 3911

|||||
Sbjct: 38472481 tttgtaaaaatgatttttggttaa 38472504

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6266 ttttttttggtttggttttaa 6289
|||||
Sbjct: 38858248 ttttttttggtttggtttcaa 38858225

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6303 attttttttggtattaattg 6322
|||||
Sbjct: 38955243 attttttttggtattaattg 38955262

Score = 40.1 bits (20), Expect = 6.4
Identities = 41/48 (85%)
Strand = Plus / Plus

Query: 6682 gacacatggaacatcattttggtttacctgattcttgatatccattt 6729
|||| | ||||| ||| |||| | |||| | |||| | ||||
Sbjct: 39030345 gacatatggaacatcacttttggtttatctggttcttagatattcattt 39030392

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5328 tttgaaaaaaaaaattataaa 5347
|||||
Sbjct: 39102343 tttgaaaaaaaaaattataaa 39102362

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 39425059 tttttttttaaaaaaaaaaaaaa 39425040

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 39490538 tttttttttaaaaaaaaaaaaaa 39490519

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4794 ttaataagtaataattttttt 4813
 | | | | | | | | | | | | | | | |
Sbjct: 39497319 ttaataagtaataattttttt 39497338

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5551 ttttttaaaaaaaaaaaaaaca 5570
 | | | | | | | | | | | | | | | |
Sbjct: 39907682 ttttttaaaaaaaaaaaaaaca 39907701

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6053 aaataataaaaaaaaaattaa 6072
 | | | | | | | | | | | | | | | |
Sbjct: 40534820 aaataataaaaaaaaaattaa 40534801

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaaca 5570
||||||| |||||||||
Sbjct: 41121620 ctttttttttaaaaaaaaaaaaaaca 41121643

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5567
||||||| |||||||||
Sbjct: 41302251 ttttttttttaaaaaaaaaaaaaa 41302232

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2587 tatttttttttctttctaaac 2606
||||||| |||||||||
Sbjct: 41347174 tatttttttttctttctaaac 41347155

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6114 ttttttccttagttaagaaa 6133
||||||| |||||||||
Sbjct: 41399185 ttttttccttagttaagaaa 41399166

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaacaa 5571
||||||| |||||||||
Sbjct: 41613284 tttttttttataaaaaaaaaaaaaacaa 41613307

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6490 gaaattaaaaaatatatatt 6509
|||||||
Sbjct: 41685797 gaaattaaaaaatatatatt 41685816

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2801 ctttattaaattcatataaa 2820
|||||||
Sbjct: 41752559 ctttattaaattcatataaa 41752578

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
|||||||
Sbjct: 42060673 ttttttttaaaaaaaaaaaaa 42060692

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3893 aaaaatgatttttttttaa 3912
|||||||
Sbjct: 42364416 aaaaatgatttttttttaa 42364397

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6292 tttgtatttttatttttttt 6311

|||||
Sbjct: 43497754 tttgtatttttattttttttt 43497773

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5543 tgaacttttttttaaaaaaaaaaaaaacaagta 5574
|||||
Sbjct: 44160620 tgaacttttttttaaaaaaagaaaaaaaaaagta 44160589

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 44181599 aacttttttttaaaaaaaaaaaaaa 44181622

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaa 5564
|||||
Sbjct: 44646161 aacttttttttaaaaaaaaaaaaa 44646180

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 44653908 ttttttttaaaaaaaaaaaaaa 44653927

Score = 40.1 bits (20), Expect = 6.4
Identities = 38/44 (86%)
Strand = Plus / Plus

Query: 5228 tattagttcagttgggttagagcattatgttaataatgtgaaagt 5271
 |||| | |||| | |||| |||| |||| | | |||| | | ||||
Sbjct: 44865807 tattggttcaattgggttagagcattgtattaataacgcgaaagt 44865850

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5036 tgaataaataaaaagggtttta 5055
 |||| |||| |||| |||| ||||
Sbjct: 45078583 tgaataaataaaaagggtttta 45078602

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||| |||| |||| |||| ||||
Sbjct: 45438347 tttttttttaaaaaaaaaaaaaa 45438366

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtg 1663
 |||| | |||| |||| |||| ||||
Sbjct: 45794728 acaaaagccttatcccactaggtg 45794705

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||| |||| |||| |||| ||||
Sbjct: 45949790 tttttttttaaaaaaaaaaataaaca 45949813

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3900 attttttttaaatagtaaaaa 3919
 ||||||||||||||||||
Sbjct: 46033029 attttttttaaatagtaaaaa 46033048

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 46282616 ttttttttaaaaaaaaaaaaaa 46282635

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5565
 ||||||||||||||||||
Sbjct: 46696888 acttttttttaaaaaaaaaaaaaa 46696907

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 46718787 ttttttttaaaaaaaaaaaaaa 46718768

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5541 attgaacttttttttaaaaaaaaaa 5564
 |||||| ||||||||||||||||||
Sbjct: 46909774 attgaaatttttttttaaaaaaaaaa 46909797

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3894 aaaatgattttttttaaatg 3913
 |||||||
Sbjct: 47253327 aaaatgattttttttaaatg 47253346

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5318 aaaatatatttttgaaaaaaaaattataaaaa 5349
 ||||| ||| |||||||
Sbjct: 47301485 aaaatatatttttgaaaaaaaaattataaaaa 47301516

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 7399 aaatatattttattataaaac 7418
 |||||||
Sbjct: 47529063 aaatatattttattataaaac 47529044

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 48709915 ttttttttaaaaaaaaaaaaaa 48709896

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 6044 tttttatccaaataataaaaaaaaaatta 6071

||||||| ||| |||||||||
Sbjct: 48834664 tttttatcaaaatcataaaaaaaatta 48834637

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggtacatg 1677
||||||| ||| |||||||
Sbjct: 48957506 gccttatcccacgaggtgtgggttggtacatg 48957475

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 7458 actacaaatcattaaataat 7477
|||||||
Sbjct: 48985179 actacaaatcattaaataat 48985160

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaa 5565
|||||||
Sbjct: 49000441 acttttttttaaaaaaaaaa 49000422

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 49404008 ctttttttttaaaaaaaaaa 49404027

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 |||||
Sbjct: 49412949 aaaattaattgtcatataaaatttattatataaa 49412918

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 49550962 tttttttttaaaaaaaaaaaaaa 49550981

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 50100874 aaaaaaaattataaaaaaat 50100893

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5901 tggaacaaggcaacgacaac 5920
 |||||
Sbjct: 50354609 tggaacaaggcaacgacaac 50354590

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 50409364 tttttttttaaaaaaaaaaaaaa 50409345

>[gb|CM000841.1](#)| Glycine max chromosome 8, whole genome shotgun sequence

Length = 46995532

Score = 1592 bits (803), Expect = 0.0

Identities = 812/815 (99%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

Sbjct: 8116985 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
8117044

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 8117045 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
8117104

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

Sbjct: 8117105 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
8117164

Query: 1823 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 8117165 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
8117224

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

Sbjct: 8117225 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
8117284

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

Sbjct: 8117285 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
8117344

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

Sbjct: 8117345 actttattctcatgttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
8117404

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 8117405 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 8117464

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

|||||
 Sbjct: 8117465 acccccgatgctttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 8117524

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 8117525 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 8117584

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
 2302

|||||
 Sbjct: 8117585 ataatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaactta
 8117644

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 8117645 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 8117704

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 8117705 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 8117764

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 8117765 tctgcaaaaagcatgcatctcggcgctatctcttg 8117799

Score = 1576 bits (795), Expect = 0.0
 Identities = 810/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||

Sbjct: 7952134 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
7952193

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 7952194 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
7952253

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 7952254 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
7952313

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 7952314 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctattt
7952373

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

|||||
Sbjct: 7952374 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
7952433

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 7952434 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
7952493

Query: 2003 actttattctcatgttggtctcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 7952494 actttattctcatgttggtctcttgaccgccccaacattctgttccgtacaaaatcgccggt
7952553

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 7952554 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
7952613

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||

Sbjct: 7952614 acccccgatgcttttctccatttcacccatcctgcttgaatgcatgattcacatccct
7952673

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 7952674 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
7952733

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 7952734 ataatatggtttcctattttcacctctgagttagaaaccctccttcttttgttgaactta
7952793

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 7952794 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
7952853

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 7952854 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
7952913

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 7952914 tctgcaaaaagcatgcatctcggcgctatctcttg 7952948

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 19859480 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
19859421

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 19859420 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
19859361

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 19859360 atagtctttttgggtcttcctctgccttgaattgtttgtcttctctccatctggtctact
19859301

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 19859300 ctctcactacagagtctaccggtcttctctctacatgccccaaaccatctaagtctattt
19859241

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 19859240 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
19859181

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 19859180 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19859121

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 19859120 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
19859061

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 19859060 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
19859001

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 19859000 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
19858941

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 19858940 tcaatttccccatcctcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
19858881

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 19858880 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
19858821

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 19858820 cattccatataactccgatttccttctgcttaggcgaaagccatgtgtttctagagctcgt
19858761

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 19858760 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
19858701

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 19858700 tctgcaaaaagcatgcatctcggcgctatctcttg 19858666

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 7761754 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
7761695

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 7761694 tcaagtgtcatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
7761635

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 7761634 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
7761575

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 7761574 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
7761515

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 7761514 tccaccatcttctctacaataggcgctactcccaccctctctctaataagcttcgtttcta
7761455

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 7761454 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
7761395

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 7761394 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
7761335

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 7761334 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
7761275

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 7761274 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
7761215

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 7761214 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
7761155

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 7761154 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
7761095

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 7761094 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
7761035

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 7761034 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
7760975

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 7760974 tctgcaaaaagcatgcatctcggcgctatctcttg 7760940

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 11098936 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgtttta
11098995

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 11098996 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
11099055

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 11099056 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
11099115

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcattt
1882

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Sbjct: 11099116 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtcattt
11099175

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 11099176 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
11099235

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 11099236 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
11099295

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 11099296 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
11099355

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 11099356 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
11099415

Query: 2123 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 11099416 acccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatcccct
11099475

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 11099476 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
11099535

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 11099536 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
11099595

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 11099596 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
11099655

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 11099656 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
11099715

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 11099716 tctgcaaaaagcatgcatctcggcgctatctcttg 11099750

Score = 1568 bits (791), Expect = 0.0
Identities = 810/815 (99%), Gaps = 1/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 13066691 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
13066750

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 13066751 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
13066810

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 13066811 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
13066870

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 13066871 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
13066930

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||||
Sbjct: 13066931 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
13066990

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 13066991 attttatcctgtcga-tcttaccacacatccaccgcaacatcctcatctccgctacacct
13067049

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 13067050 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
 13067109

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 13067110 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 13067169

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

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 Sbjct: 13067170 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 13067229

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 13067230 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 13067289

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 13067290 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 13067349

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 13067350 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 13067409

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 13067410 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 13067469

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 13067470 tctgcaaaaagcatgcatctcggcgctatctcttg 13067504

Score = 1560 bits (787), Expect = 0.0
 Identities = 808/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 1479238 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1479179

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 1479178 tcaagtaccataacttctatccaaatcattaagttcgagatcctttttgataacctctctt
1479119

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 1479118 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1479059

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 1479058 ctccctcactacagagtctaccggtcttctctctacatgcccaaactacctaagtctattt
1478999

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 1478998 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1478939

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 1478938 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
1478879

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 1478878 actttgttctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
1478819

Query: 2063 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 1478818 cttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataac
1478759

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

|||||
 Sbjct: 1478758 accctcgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 1478699

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 1478698 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 1478639

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
 2302

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 Sbjct: 1478638 ataatatgggtctcctattttccctctgagttacaaaccctccttcttttggtgaactta
 1478579

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 1478578 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 1478519

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 1478518 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 1478459

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 1478458 tctgcaaaaagcatgcatctcggcgcttctcttg 1478424

Score = 1544 bits (779), Expect = 0.0
 Identities = 806/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 23826859 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 23826800

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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Sbjct: 23826799 tcaagtaccatacttctatccaaatcattaagtttgagatccttttttataacctctctt
23826740

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 23826739 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
23826680

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 23826679 ctcttactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
23826620

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 23826619 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
23826560

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 23826559 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
23826500

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 23826499 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
23826440

Query: 2063 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 23826439 ctaccgcagtcgaataaaaactttcccttttagcttgatcggtacctttgcatcacataac
23826380

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 23826379 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
23826320

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 23826319 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
23826260

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 23826259 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
23826200

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 23826199 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
23826140

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 23826139 ctccaagtttccaacctctcattcaaactcctccctcgactctccaaggaggactatgtca
23826080

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 23826079 tctgcaaaaagcatgcatctcggcgctatctcttg 23826045

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 39902789 aacgccttatccactaggtggggtcggctacatggatcaacttccgtcataatgttcta
39902848

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 39902849 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
39902908

Query: 1763 atagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 39902909 atagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
39902968

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 39902969 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
39903028

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 39903029 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
39903088

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 39903089 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39903148

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 39903149 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
39903208

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 39903209 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
39903268

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

||| |||||
Sbjct: 39903269 acctccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccg
39903328

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 39903329 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
39903388

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 39903389 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
39903448

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 39903449 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
39903508

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 39903509 ctccaagtttccaacctctcattcagctcctccctcgactctctaaggaggacaatgtca
39903568

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 39903569 tctgcaaaaagcatgcatctcggcactatctcttg 39903603

Score = 1544 bits (779), Expect = 0.0

Identities = 806/815 (98%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 40341206 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
40341265

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 40341266 tcaagtaccatacttctatccaaatcatthaagttcgagatcctttttgataacctctctt
40341325

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 40341326 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgatctact
40341385

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 40341386 ctctcactacagagtctaccgatcttctctctacatgcccacacctaagtctattt
40341445

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 40341446 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcatttcta
40341505

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 40341506 attttatcctgtcgagtcttaccacacatccactgcaacatcctcatctccgctacacct
40341565

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 40341566 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
40341625

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 40341626 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctctgcatcacataac
40341685

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 40341686 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
40341745

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 40341746 tcaatttctccatcatcctgtattacagaccgaagatatttataccgtgtgacttgaggg
40341805

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 40341806 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
40341865

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 40341866 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
40341925

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 40341926 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
40341985

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 40341986 tctgcaaaaagcatgcatctcggcgctatctcttg 40342020

Score = 1544 bits (779), Expect = 0.0
Identities = 807/815 (99%), Gaps = 1/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 42700481 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
42700422

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 42700421 tcaagtatcatacttctatccaaaccattaatttcgagatcctttttgataacctct-tt
42700363

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 42700362 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
42700303

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 42700302 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
42700243

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||||
Sbjct: 42700242 tccaccatcttctctacaataggcgctactcccaccctctctctaataagcttcgtttcta
42700183

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 42700182 attttatcctatcgagtcttaccacacatccgccgcaacatcctcatctccgctacacct
42700123

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 42700122 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
42700063

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 42700062 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
42700003

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 42700002 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
42699943

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 42699942 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
42699883

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 42699882 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
42699823

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 42699822 cattccatatactctgatttgcttctacttaggcgaaagccatgtgtttctagagctcgt
42699763

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 42699762 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
42699703

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 42699702 tctgcaaaaagcatgcatctcggcgctatctcttg 42699668

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
1702

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Sbjct: 45488528 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatggttcta
45488469

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 45488468 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
45488409

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

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Sbjct: 45488408 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
45488349

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
1882

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Sbjct: 45488348 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctatatt
45488289

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 45488288 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
45488229

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 45488228 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
45488169

Query: 2003 actttattctcatggtgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062

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Sbjct: 45488168 actttattctcatggtgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
45488109

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 45488108 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 45488049

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 2182

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 Sbjct: 45488048 gccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
 45487989

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

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 Sbjct: 45487988 tcaatttctccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 45487929

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 45487928 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
 45487869

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 45487868 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
 45487809

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 45487808 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 45487749

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 45487748 tctgcaaaaagcatgcatctcggtgctatctcttg 45487714

Score = 1538 bits (776), Expect = 0.0
 Identities = 806/815 (98%), Gaps = 2/815 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 27995827 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 27995886

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 27995887 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
27995946

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 27995947 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
27996006

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 27996007 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
27996066

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 27996067 tccaccatattctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
27996126

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 27996127 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27996186

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 27996187 actttattctcatggttggtctcttgatcgccaacattatgttcggtacaaaatcgccggt
27996246

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 27996247 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
27996306

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 27996307 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
27996366

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 27996367 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
27996426

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 27996427 ataatatggtctcctattttcac--ctgagttagaaaccctccttcttttgttgaactta
27996484

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 27996485 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
27996544

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 27996545 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
27996604

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 27996605 tctgcaaaaagcatgcatctcggcgctatctcttg 27996639

Score = 1517 bits (765), Expect = 0.0
Identities = 803/815 (98%), Gaps = 3/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 46715696 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
46715755

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 46715756 tcaagtaccatacttttatccaaaccattaattttgagatccttttttataacctctctt
46715815

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 46715816 atagtctttttgggtcttctt---ctcgaattgtttgtcttctctccatctggtctact
46715872

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 46715873 ctctcactacagagtctatcggtcttctctctacatgcccaaaccacctaagtctattt
46715932

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942

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Sbjct: 46715933 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttttgtttcta
46715992

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 46715993 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
46716052

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 46716053 actttattctcatgttggtctcttgaccacccaacattctgttccgtacaaaatcgccggt
46716112

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 46716113 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
46716172

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 46716173 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcatatccct
46716232

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 46716233 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
46716292

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 46716293 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
46716352

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 46716353 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
46716412

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 46716413 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
46716472

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 46716473 tctgcaaaaagcatgcatctcggcgctatctcttg 46716507

Score = 1513 bits (763), Expect = 0.0
Identities = 803/815 (98%), Gaps = 1/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 43381842 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
43381783

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 43381782 tcaagtatcatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
43381723

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 43381722 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgatctact
43381663

Query: 1823 ctcttcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||
Sbjct: 43381662 ctcttcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
43381603

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 43381602 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
43381543

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 43381542 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
43381483

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 43381482 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
43381423

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 43381422 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataaa
43381363

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 43381362 tccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
43381303

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 43381302 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
43381243

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 43381242 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
43381183

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 43381182 cattccatataactccgatttgcttctgcttaggcgaaa-ccatgtgtttctagagctcgt
43381124

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 43381123 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
43381064

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 43381063 tctgcaaaaagcatgcatctcggcgctatctcttg 43381029

Score = 1499 bits (756), Expect = 0.0
Identities = 798/812 (98%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
1705

|||||
Sbjct: 40931236 gccttatcctactaggtggggctcggctacatggatcaacttccgccataatgttctatca
40931177

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

|||||
Sbjct: 40931176 agtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctcttata
40931117

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825

|||||
Sbjct: 40931116 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
40931057

Query: 1826 ctccactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattttcc
1885

|||||
Sbjct: 40931056 ctccactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattttcc
40930997

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagtctcggttctaat
1945

|||||
Sbjct: 40930996 accatcttctctacaataggcgctactccaaccctctctctaatagtctcggttctaat
40930937

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
2005

|||||


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Query:  2426      gcaaaaagcatgcatctcggcgctatctcttg 2457
          |||||||||||||||||||||
Sbjct: 40930456  gcaaaaagcatgcatctcggcgctatctcttg 40930425

```

Score = 1491 bits (752), Expect = 0.0
Identities = 800/815 (98%), Gaps = 2/815 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 40256992 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
40257051

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 40257052 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
40257111

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 40257112 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
40257171

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882
|||||
Sbjct: 40257172 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
40257231

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942
|||||
Sbjct: 40257232 tccaccatcttctctacaataggcgctaccccaaccctctctctaatagtctcgtttcta
40257291

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 40257292 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
40257351

Query: 2003 actttattctcatggtgggtcttgaccgcccacatttctgttccgtacaaaatcgccgggt
2062
|||||
Sbjct: 40257352 acttttagtctcatggtgggtcttgaccgcccacattttgttccgtacaaaatcgctcgat
40257411

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 40257412 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40257471

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||

Sbjct: 40257472 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
40257531

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 40257532 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
40257591

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 40257592 ataatatggtctcctattttcacctctgagttagataaccctcctacttttgttgaactta
40257651

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 40257652 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
40257711

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 40257712 ctccaagtttcaac--ctcattcaactcctccctcgactctccaaggaggactatgtca
40257769

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||

Sbjct: 40257770 tctgcaaaaagcatgcatctcggcgctatctcttg 40257804

Score = 1467 bits (740), Expect = 0.0
Identities = 782/796 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 38769400 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
38769459

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 38769460 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
38769519

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 38769520 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
38769579

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 38769580 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
38769639

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 38769640 tccaccatcttctctataataggcgctactcaaaccctctctctaataagcttcgtttcta
38769699

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 38769700 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38769759

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 38769760 actttagtctcattttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
38769819

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 38769820 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
38769879

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||

Sbjct: 38769880 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 38769939

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

||||| |
 Sbjct: 38769940 tcaatttcttcatcatcctgtattacagacccaagatatttaaaccgtgtgacttgagga
 38769999

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

||||| |
 Sbjct: 38770000 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
 38770059

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

||||| |
 Sbjct: 38770060 cattccatataactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 38770119

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

||||| |
 Sbjct: 38770120 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 38770179

Query: 2423 tctgcaaaaagcatgc 2438
 |||||

Sbjct: 38770180 tctgcaaaaagcatgc 38770195

Score = 1306 bits (659), Expect = 0.0
 Identities = 689/699 (98%)
 Strand = Plus / Minus

Query: 1759 tcttatagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtc
 1818

||||| |
 Sbjct: 21781435 tcttatagtctttttggatcttctctacctcgaattgtttgtcttctctccatctggtc
 21781376

Query: 1819 tactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtct
 1878

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 Sbjct: 21781375 tactctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtct
 21781316

Query: 1879 attttcaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggt
1938

|||||
Sbjct: 21781315 attttcaccatcttctctacaataggcgctactccaaccctctctctaatagcttcggt
21781256

Query: 1939 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
1998

|||||
Sbjct: 21781255 tctaattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctac
21781196

Query: 1999 acctactttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgc
2058

|||||
Sbjct: 21781195 acctactttattctcatgttggctcttcaccgccaacattttgttccgtacaaaatcgt
21781136

Query: 2059 cgggtcttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcaca
2118

|||||
Sbjct: 21781135 cgggtcttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcaca
21781076

Query: 2119 taacacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
2178

||| |||||
Sbjct: 21781075 taataacccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatc
21781016

Query: 2179 cccttcaatttcccatcatcctgtattacagacccaagatatttaaacggtgtgacttg
2238

|||||
Sbjct: 21781015 cccttcaatttctccatcatcctgtattacggacccaagatatttaaacggtgtgacttg
21780956

Query: 2239 agggataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaa
2298

|||||
Sbjct: 21780955 agggataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaa
21780896

Query: 2299 cttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagc
2358

|||||
Sbjct: 21780895 cttacattccatataactctgatttgcttctgcttaggcgaaaaccatgtgtttctagagc
21780836

Query: 2359 tcgtctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactat
2418
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 21780835 tcgtctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactat
21780776

Query: 2419 gtcacatctgcaaaaagcatgcatctcggcgctatctcttg 2457
 ||||||||||||||||||||||||||||||||||||
Sbjct: 21780775 gtcacatctgcaaaaagcatgcatctcggcgctatctcttg 21780737

Score = 1283 bits (647), Expect = 0.0
Identities = 675/683 (98%), Gaps = 1/683 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 40383134 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
40383193

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||||||||||||||||||||||| |||||| | |||||||||||||||||||||||||
Sbjct: 40383194 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
40383253

Query: 1763 atagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 |||||| | |||||||||||||||||||||| |||||| | |||||||||||||||||||||
Sbjct: 40383254 atagtcctttttgggtcttcctctgcctcgaatagttgtcttctctccatctgggtctact
40383313

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtcctattt
1882
 |||||||||||||||||| |||||||||||||||||||||||||||||||||||||
Sbjct: 40383314 ctccctcactacagagtctgccgggtcttctctctacatgcccaaaccacctaagtcctattt
40383373

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 40383374 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctg
40383433

Query: 1943 attttatcctgtcgcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 40383434 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 40383493

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 40383494 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
 40383553

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 40383554 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
 40383613

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182

|||||
 Sbjct: 40383614 accctcgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 40383673

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 40383674 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 40383733

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 40383734 ataatatggtctcctattttcacctctgagttagaaa-cctccttcttttgttgaactta
 40383792

Query: 2303 cattccatataactccgatttgct 2325
 |||||

Sbjct: 40383793 cattccatataactccgatttgct 40383815

Score = 1116 bits (563), Expect = 0.0
 Identities = 572/575 (99%)
 Strand = Plus / Minus

Query: 1882 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttct
 1941

|||||
 Sbjct: 4904036 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttct
 4903977

Query: 1942 aatTTtAtCctGtCgagTctTaccAcacATccaccGcaacATcctCATctccGctacacc
2001

|||||

Sbjct: 4903976 aatTTtAtCctGtCgagTctTaccAcacATccaccGcaacATcctCATctccGctacacc
4903917

Query: 2002 tactTTattctCATgtTggctctTgaccGcccaacATTctgtTccgtacaaaATcgccgg
2061

|||||

Sbjct: 4903916 tactTTattctCATgtTggctctTgaccGcccaacATTctgtTccgtacaaaATcgccgg
4903857

Query: 2062 tctTaccGcagTccgataaaaactTTccctTtagctTgatcggtacctTTgcATcacataa
2121

|||||

Sbjct: 4903856 tctTaccGcagTccgataaaaactTTccctTtagctTgatcggtacctTTgcATcacataa
4903797

Query: 2122 caccCCcgatgctTTTctccATTtCATccATcctgctTgaatGcgatgattcAcATcccc
2181

|||||

Sbjct: 4903796 caccCCcgatgctTTTctccATTtCATccATcctgctTgaatGcgatgattcAcATcccc
4903737

Query: 2182 ttCAattTccCATCATcctgtATTacagaccCAagATattTaaaccgtgtgactTgagg
2241

|||||

Sbjct: 4903736 ttCAattTccCATCATcctgtATTacagaccCAagATattTaaaccgtgtgactTgagg
4903677

Query: 2242 gataATatggTctcctATTTtCACctctgagTtagaaaccctcctTctTTtgTgaactT
2301

|||||

Sbjct: 4903676 gataATatggTctcctATTTtCATctctgagTtagaaaccctcctTctTTtgTgaactT
4903617

Query: 2302 acATTccATatactccgATTtgctTctgctTaggcgaaagccATgtgtTtctagagctcg
2361

|||||

Sbjct: 4903616 acATTccATatactccgATTtgctTctgctTaggcaaaagccATgtgtTtctagagctcg
4903557

Query: 2362 tctCCAagTTtCCAacctctcATTtCAactcctccctcgactctCCAaggaggactatgtc
2421

|||||

Sbjct: 4903556 tctCCAagTTtCCAacctctcATTtCAactcctccctcgactctCCAaggaggactatgtc
4903497

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctctt 2456
|||||
Sbjct: 4903496 atctgcaaaaagcatgcatctcggcgctatctctt 4903462

Score = 1063 bits (536), Expect = 0.0
Identities = 575/588 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 22995166 aacgccttatcccactagatggggtcgggtacatgcatcaacttccgccataatgttcta
22995107

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 22995106 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacatctctt
22995047

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 22995046 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
22994987

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|| |||||
Sbjct: 22994986 ctgctcactacagagtctaccggtcttctctctacatgcccaaatacacctaagttctattt
22994927

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 22994926 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
22994867

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 22994866 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
22994807

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||

Sbjct: 22994806 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaaatcgccggt
22994747

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 22994746 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
22994687

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|| |||||
Sbjct: 22994686 actcccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcctct
22994627

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgt 2230
|||||

Sbjct: 22994626 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgt 22994579

Score = 1039 bits (524), Expect = 0.0
Identities = 539/544 (99%)
Strand = Plus / Plus

Query: 1644 acgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctat
1703

|||||
Sbjct: 35097057 acgccttatccaactaggtggggtcggctacatggatcaacttccgccataatgttctat
35097116

Query: 1704 caagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctta
1763

|||||
Sbjct: 35097117 caagtaccatacttctatccaaatcattaagttcgagatccttttgataacctctctta
35097176

Query: 1764 tagtccttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
1823

|||||
Sbjct: 35097177 tagtccttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactc
35097236

Query: 1824 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
1883

|||||
Sbjct: 35097237 tcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttt
35097296

Query: 1884 ccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaa
1943

|||||

Sbjct: 35097297 ccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaa
35097356

Query: 1944 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
2003

|||||

Sbjct: 35097357 ttttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccta
35097416

Query: 2004 ctttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggtc
2063

|||||

Sbjct: 35097417 ctttattctcatgttggtcttgaccgccaacattctgttccgtacaaaatcgccggtc
35097476

Query: 2064 ttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataaca
2123

||| |||||

Sbjct: 35097477 ttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataaca
35097536

Query: 2124 ccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccctt
2183

| |||||

Sbjct: 35097537 ccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccctt
35097596

Query: 2184 caat 2187

|||

Sbjct: 35097597 caat 35097600

Score = 878 bits (443), Expect = 0.0
Identities = 443/443 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 39484495 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
39484436

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 39484375 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
39484316

[illegible]

Sbjct: 39484255 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
39484196

Sbjct: 39484195 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39484136

Sbjct: 39484135 actttattctcatggtggctcttgaccgccaacattctgttcgtaaaaatcgccggt
39484076

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Query: 2063      cttaccgcagtcgcgataaaactt 2085
                |||
Sbjct: 39484075 cttaccgcagtcgcgataaaactt 39484053
```

Sbjct: 17279137 ctcactacagagtctaccgggtcttctctctacgtgtccaaccaactaagtctattttcc
17279078

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaatt
 1945

|||||
 Sbjct: 17279077 accatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctaatt
 17279018

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
 2005

|||||
 Sbjct: 17279017 ttatcctgtcgagtcttactacacatccaccgcaacatcctcatctccgctacacctact
 17278958

Query: 2006 ttattctcatgttggtctttgaccgcccacattctgttccgtacaaaatcgccggtctt
 2065

|||||
 Sbjct: 17278957 ttattctcatgttggtctttgaccgcccacattctgttccgtacaaaatcgccggtctt
 17278898

Query: 2066 accgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
 2125

|||||
 Sbjct: 17278897 accgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
 17278838

Query: 2126 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
 2185

|||||
 Sbjct: 17278837 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
 17278778

Query: 2186 atttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
 2245

|||||
 Sbjct: 17278777 atttcttcatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
 17278718

Query: 2246 atatggtctcctatttt 2262

|||||
 Sbjct: 17278717 atatggtctcctatttt 17278701

Score = 577 bits (291), Expect = e-161
 Identities = 306/311 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 13922326 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
13922385

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 13922386 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
13922445

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 13922446 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
13922505

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 13922506 ctctcactacaaagtctaccggtcttctctctacatgcccaaatacacctaagtctattt
13922565

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 13922566 tccaccatcttctctacaataggcgctactccaaccctctctctaataaacttcgtttcta
13922625

Query: 1943 attttatcctg 1953

|||||
Sbjct: 13922626 attttatcctg 13922636

Score = 476 bits (240), Expect = e-131
Identities = 246/248 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 1584937 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1584878

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 1584877 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1584818

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 1584817 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctagtctact
1584758

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 1584757 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1584698

Query: 1883 tccaccat 1890
|||||
Sbjct: 1584697 tccaccat 1584690

Score = 404 bits (204), Expect = e-109
Identities = 207/208 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 4904241 aacgccttatcccactaggtggggtcggctacatggatcaacttccaccataatgttcta
4904182

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 4904181 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
4904122

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 4904121 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
4904062

Query: 1823 ctctcactacagagtctaccggtcttc 1850
|||||
Sbjct: 4904061 ctctcactacagagtctaccggtcttc 4904034

Score = 402 bits (203), Expect = e-109
Identities = 480/568 (84%), Gaps = 7/568 (1%)
Strand = Plus / Minus

Query: 6675 ggaatgcgacacatggaacatcattttgggtttacctgattccttggatatccattttgggtg
6734
|||||
Sbjct: 36392133 ggaatgcgacatatggaacatcgttttgggttgacctagttccttggatatccattttgggtg
36392074

Query: 6735 tgtatacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaa
6794
|||||
Sbjct: 36392073 tgtatacgagaggagacaaaacaatctttagaatttcttttcatttttaggtcgaggcaa
36392014

Query: 6795 attccttggcttgtgacatgggtgaccaacatgcttcattgcacaatttcccaagtaatcat
6854
|||||
Sbjct: 36392013 attccttggcttgtgacacggtgtccaatatgcttcattgtgaaattcccaaacaattct
36391954

Query: 6855 ttgtacatgttatagatacttttcagcgtatacacaagatgtatgtagttcctataactca
6914
|||||
Sbjct: 36391953 ttgtacacgttagagacattttccaatatatacataggatgtatatagttcctataactca
36391894

Query: 6915 tgggtgagcatgctt---ataaacaacaacatgagaacaaaacatgtgcattttttgaaat
6971
||
Sbjct: 36391893 tgttgagcatgcttacaagaagtaacaacatgagaacaaaacatgtgca-tttttggaat
36391835

Query: 6972 ttgtcacagtcacactacctttcatctagcttgacctgaaatttctcactagttgaatc
7031
||
Sbjct: 36391834 tttccacagtcacaccaccttccatccaacctgaccgtgaaatttccagcaagttgaa--
36391777

Query: 7032 tctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaa
7091
|||||
Sbjct: 36391776 tctctctcaggttaattatctcttggactaagaact-tgtgtcacatcaatcaaacttaa
36391718

Query: 7092 gaacaatgtgagagtttgccctttttctgtatgtctttcatagccttggttaataacttttg
7151

|||||
Sbjct: 36391717 gaataaatatgagagtttgcctttctttgtgcatcttccatagccttggttagtacttgtg
36391658

Query: 7152 tataaacttcaccaaagtgaatcactcttgcgacttctctccccctttggttgaacaatg
7211

|||||
Sbjct: 36391657 tataaacttggctagatgtaatcattgttgcgacttctctccctctttggttgaacaatg
36391598

Query: 7212 cattacacctagtatagggttgattttac 7239
|||||
Sbjct: 36391597 catttcaccttgatagggttgattttac 36391570

Score = 341 bits (172), Expect = 1e-90
Identities = 311/354 (87%), Gaps = 10/354 (2%)
Strand = Plus / Minus

Query: 6323 tctatatttgtgttctgtttaaattgaaaacaatattatttttcatatgttgtaattct
6382

|||||
Sbjct: 36392499 tctatatttatgttttgtttacattgaaaataatattattttgcac-----gttattttt
36392445

Query: 6383 taatttcttatgcatattttatgttttatcatttttt-aagagttgaaatcctttgtatt
6441

| |||||
Sbjct: 36392444 aatttttttttgcataattttatatttttatcattttttgaagggttgaaattccttg-att
36392386

Query: 6442 tttattttatttgattattataatacataattaacaacaacttaattgaaattaaaaaa
6501

|||||
Sbjct: 36392385 tttattttatttgattattaaaatacataattaatcaacaacttaattgaaattaaaaaa
36392326

Query: 6502 tatatatttaactgacaagttgacttgaactaaaatatttaaattacaaaatagatatga
6561

|||||
Sbjct: 36392325 ---atatttaaccaacaagttgagttaaactaaaatatttaagttacaaaataaatatga
36392269

Query: 6562 aattacaaacaatagaacaaaatattttaatttgaaataatacaacaaaaatttttaaaat
6621

|||||
Sbjct: 36392268 aattacaaacaatagaacaaaatattttaagtttgaaacaatacaacaaatttttttaaaat
36392209

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175

|||||
Sbjct: 20706062 aaaaattaatgatcacaaaatttattatgtaaatttacatgtacattaaatatattag
20706003

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

|||||
Sbjct: 20706002 aaattttaatatattatatatagagacattaattattttataatataattgatctattagtt
20705943

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295

|||||
Sbjct: 20705942 gagttgggttagagcattgtgctaataacatgaaagtcatatgtttaattcttgcttaaat
20705883

Query: 5296 catataattttaaaattaatttgtaaaaatatatttttgaaaaaaaaat 5341
Sbjct: 20705882 catataattttaaaattaatttgtaaaattatatatttttgaaaaaaaaat 20705837

Score = 230 bits (116), Expect = 3e-57
Identities = 276/329 (83%), Gaps = 4/329 (1%)
Strand = Plus / Minus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490

|||||
Sbjct: 34668527 atacaacaacgaaaaacacacatgacaactacaaatcattaaataataaaaaataaaaattg
34668468

Query: 7491 aataatttggggagggggg---tcttcaaaacttgattcaagggttcattgtatcatcgag
7546

|||
Sbjct: 34668467 agtaaattgggggtgggggatttcttcaaaactcgattcaagggttcattgtttcatcaag
34668408

Query: 7547 gtattcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtgtgtgcata
7606

|||||
Sbjct: 34668407 gtattcatccaaaccctccaaattcaaagagctggcaaagaatgggtgggtgtgtgcata
34668348

Query: 7607 tgtttatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagag
7666

|||||
Sbjct: 34668347 tgtttgtaggtgtgtctgcgggtggaatatataactccaggcatgtgagcttggagat
34668288

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Sbjct: 3842142 attttagtgctatatataataacattatattttatattataatataattgatctattagttca
3842201

Query: 5238 gttgggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatca
5297

|||| |||||| | | |||||||||||||||||||||| || | | | | |||||| | |
Sbjct: 3842202 gttgattagagcgttgtgttaataatgtgaaagtcaaaagtttaacttctgcttggacca
3842261

Query: 5298 ttaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5339
|||||||||||| |||||||||| |||||||||| ||||||||||

Sbjct: 3842262 ttaatttttaa-taatttgtaaaacatatatttttgaaaaaaaa 3842302

Score = 188 bits (95), Expect = 1e-44
Identities = 169/191 (88%), Gaps = 2/191 (1%)
Strand = Plus / Minus

Query: 1195 aatcatacctttctcggccttttggttaagatcaagtgtagtatctgttcttatcagttt
1254

||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 1382815 aatcatacctttctcggccttttggttaagatcaagtgtagtatctgttcttatcagttt
1382756

Query: 1255 aatatctgatatgtgggtcattggcccatgatattaaatttattttttgaaggggtggg
1314

|||||||||||||||| |||||| |||| |||||||||| |||||| ||| |||
Sbjct: 1382755 aatatctgatatgtggaccattgggtcacacgatattaaattaattttttgaggggaggg
1382696

Query: 1315 gcctgacatagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactg
1374

|| || |||||||||||||||||| || | | |||| ||| ||| ||||||||||
Sbjct: 1382695 tcc-accacagtagcttgctactggggctt-tcatgcgtcgcccatgtgttgactactg
1382638

Query: 1375 catgggcctgg 1385
|| ||||||||

Sbjct: 1382637 cacgggcctgg 1382627

Score = 184 bits (93), Expect = 2e-43
Identities = 186/217 (85%)
Strand = Plus / Minus

```

Query: 5297      attaatttttaaatattttgtaaaatat 5324
              |||||
Sbjct: 23669348 attaatttttaaaataatttcgtaaaatat 23669375

```

Score = 176 bits (89), Expect = 4e-41
Identities = 104/109 (95%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
1257
 |||||
Sbjct: 42971741 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaat
42971682

Query: 1258 atctgatatgtgggtcattggcccacatgatattaaatttattttttga 1306
 |||||
Sbjct: 42971681 atctgatatgtggaccattgggttcacacgatattaaatttattttttga 42971633

Score = 174 bits (88), Expect = 2e-40
Identities = 88/88 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 9719919 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
9719978

Query: 1703 tcaagtaccatacttctatccaaaccat 1730
 |||||
Sbjct: 9719979 tcaagtaccatacttctatccaaaccat 9720006

Score = 174 bits (88), Expect = 2e-40
Identities = 94/96 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 21781551 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
21781492

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcg 1738
 |||||
Sbjct: 21781491 tcaagtaccatacttctatccaaatcattaagttcg 21781456


```
Query: 1258      atctgatatgtgggtcattggccacatgatattaaatttattttttga 1306
                |||||
Sbjct: 42978221 atctgatatgtgaaccattggttcacacgatattaaatttattttttga 42978173
```

Score = 165 bits (83), Expect = 2e-37
Identities = 161/187 (86%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5175
|||||
Sbjct: 40947850 aaaaattaattatcacaaaatttattatgttaaatttacatgtacattaaatatacatag
40947791

Query: 5176 aaatTTtagtgTTatatttagtgaaattaatttttataacataattgatgtattagtt
5235
|||||
Sbjct: 40947790 aaatTTTgtattatatataacgacattaatttttataacataattgatctattaact
40947731

Query: 5236 cagttggTTagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggaT
5295
||
Sbjct: 40947730 caattggTTagagcgTtgTgtaataacgcgaaagtcaaagattcgattcctgcttggaC
40947671

Query: 5296 catTAat 5302
|||||
Sbjct: 40947670 catTAat 40947664

Score = 161 bits (81), Expect = 3e-36
Identities = 117/129 (90%)
Strand = Plus / Plus

Query: 6505 atatttTaaactgacaagTTgactTgaactaaaatatttTaaattacaaaatagatatgaaat
6564
|||||
Sbjct: 1824354 atatttTaaaccaacaagTTgaattgaactaaaatatttTaaattataaaaataaatataaaat
1824413

Query: 6565 tacaacaatagaacaaaatatttTaaattTgaaataatacaacaaaaattttTaaataca
6624
||
Sbjct: 1824414 tataaacaatagaacaaaatatttTaaattTaaataatacaataaaaaattttTaaatata
1824473

Query: 6625 aacaatatg 6633
||
Sbjct: 1824474 aatatatatg 1824482

```
Query: 1198      catacctttctcgggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
1257            |||
Sbjct: 13908144 catacctttctcgggccttttggctaagatcaagtgtagtatctgttcttatcagtttaaat
13908085
```

Query: 1258 atctgatatgtgggtca 1274
|||||||
Sbjct: 13908084 atctgatatgtgggtca 13908068

Score = 153 bits (77), Expect = 6e-34
Identities = 186/221 (84%), Gaps = 1/221 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataacataacattaga
5176
|||||||
Sbjct: 40885823 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatataatataaa
40885882

Query: 5177 aattttagtggttatatttagtgaaattaattatttataacataattgatgtattagttc
5236
|| ||| ||||| | ||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 40885883 aaatttaattgttatatttagcaacattaattattatataatataattgacatattagttc
40885942

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
| ||||| || | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40885943 aattggtaaagtttcatgttaataacttgaaagccacaa-tttaatttttacttgaacc
40886001

Query: 5297 attaatTTTaaattaatttgTaaaatatatttttgaaaaaa 5337
|||||||
Sbjct: 40886002 attaatTTTaaattaatttcataaaatatatttttgaaaaaa 40886042

Score = 153 bits (77), Expect = 6e-34
Identities = 98/105 (93%)
Strand = Plus / Plus

Query: 4313 catctttgcgcttgggacaataacgcagctagttaggttctaaccgaggtgtgtctattg
4372
|||||||
Sbjct: 41390217 catctttgcgcttggggcaatgacgcagctagttaggttctaaccgaggtgtgtctattg
41390276

Query: 4373 ctggttgaaaactatTTTcaaaccctctgaggcctgggattgg 4417
|||||||
Sbjct: 41390277 ctggttgaaaactatTTTcaaaccctcttaggcctgggttgg 41390321

Score = 153 bits (77), Expect = 6e-34
 Identities = 170/200 (85%), Gaps = 2/200 (1%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
 5175
 Sbjct: 43583003 aaaaattaattattacaaaatttattcatgcaaatttacat--acattaaatatacatag
 43582946

Query: 5176 aaatTTtagtggttatatTTtagtgaaattaattatTTTataacataattgatgtattagtt
 5235
 Sbjct: 43582945 aaatTTtagtattatatatagcgacattaattaatctataatataattgatctattaatt
 43582886

Query: 5236 cagttggtttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgga
 5295
 Sbjct: 43582885 cagttgattagagtgttTgttTaaataacccgaaagtcacaagttcgattttTgcttgaac
 43582826

Query: 5296 catTaattTTTaaattaattt 5315
 Sbjct: 43582825 catTaattTTTaaattaattt 43582806

Score = 149 bits (75), Expect = 1e-32
 Identities = 120/135 (88%)
 Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacatagaa
 5177
 Sbjct: 230797 aaattaattgttacaaaatttattatTTTaaatttacatgtgcattaaatatacatagga
 230856

Query: 5178 atTTtagtggttatatTTtagtgaaattaattatTTTataacataattgatgtattagttca
 5237
 Sbjct: 230857 atTTtattgttatatatagtgacattaattatTTTataatataattggcctattagttca
 230916

Query: 5238 gttggtttagagcatt 5252

||| |||||
Sbjct: 230917 attgattagagcatt 230931

Score = 149 bits (75), Expect = 1e-32
Identities = 155/180 (86%), Gaps = 5/180 (2%)
Strand = Plus / Minus

Query: 6485 taattgaaattaaaaaatatatattttaactgacaagttgacttgaactaaaatattttaa
6544

|||||
Sbjct: 12243972 taattgaaattaaaaaa---atatttaaccaacaagttgaattgaactaaaatattttaa
12243916

Query: 6545 ttacaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataatac
6604

|| |||||
Sbjct: 12243915 ttgtaaaatatatataaattacaaacaatataacaaaatattttaaattctgaagcaatac
12243856

Query: 6605 aacaaaaatttttaaaatacaaaacaatatggcataaaattaatggttggttgagccta
6664

|| |||||
Sbjct: 12243855 aaaaaaaa--ttaaaatacaaagaatatgacataaatttaacattggttgacttgagccta
12243798

Score = 149 bits (75), Expect = 1e-32
Identities = 186/223 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 41495011 aaaattaattgtcacaaaatttattatttaaataacacacgcatgaaataacattaa
41494952

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 41494951 aatttttagtggttacgtatagcaacattatttattttataataaattgggtttattaactt
41494892

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

|||||

Sbjct: 41494891 agttgggttagggcggttggttaataatctgaaagtcacaagtttgattcttggttagacc
41494832

Query: 5297 attaatTTTaaattaatttgTaaaatatatTTTTgaaaaaaaa 5339
 |||||
Sbjct: 41494831 attaatTTTaaattaatttcgtcacaaatatTTTTcaaaaaaaaa 41494789

Score = 149 bits (75), Expect = 1e-32
Identities = 102/111 (91%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatTTaaattacaaaatagatatgaaattacaaacaata
6575
 |||||
Sbjct: 46287509 acaagttaaattaaactaaaatatTTaacttacaaaatagatataaaattacaaacaata
46287450

Query: 6576 gaacaaaatatTTaaatttgaaataatacaacaaaaattTTaaaatacaaa 6626
 |||||
Sbjct: 46287449 gaacaaaatactTaaatttgaaacaatacaacaaaattTctaaaatacaaa 46287399

Score = 145 bits (73), Expect = 1e-31
Identities = 189/225 (84%), Gaps = 2/225 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 2283861 aaaattaattatcacaaaattaattattTaaatttacatgcgcatTaaatatacattaaa
2283802

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt-gatgtattagtt
5235
 |
Sbjct: 2283801 atttttagtggttatataataatatattattttattttataacataattagat-tattagtt
2283743

Query: 5236 cagttgggttagagcattatgTtaataatgtgaaagtcaaaagttcaattcttacttggat
5295
 ||
Sbjct: 2283742 catttgggttagaatatcagattaatgatttgaaagttacaaatttgattcatatttgagt
2283683

Query: 5296 cattaatTTTaaattaatttgTaaaatatatTTTTgaaaaaaaa 5340

|||||
Sbjct: 2283682 tattaatttttaaattaattcgtaaaacatatatttttgaaaaaaaaa 2283638

Score = 145 bits (73), Expect = 1e-31
Identities = 115/129 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 4563370 aaaattaattgtcacaaaatttattgatgtaaatttacatgtacattaaatatacattaga
4563311

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||
Sbjct: 4563310 aattgtagtggttatatataataacattaattattttataatataattgatctattagctc
4563251

Query: 5237 agttgggta 5245

|||||
Sbjct: 4563250 agttgggta 4563242

Score = 145 bits (73), Expect = 1e-31
Identities = 136/157 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 15453051 aaaattaattatcacaaaatttattatttaaatttacatgcgcattaaatataaattaga
15452992

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 15452991 aatttttagtggttatatagttacattattttattttataacataattaatatattagctc
15452932

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtca 5273

| |||
Sbjct: 15452931 aattgattagagcggttgatttaataacctgaaagtca 15452895

Score = 145 bits (73), Expect = 1e-31
Identities = 136/157 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
 ||||||||||||||||||||||||||||| ||| || | |||||||||||||||||
Sbjct: 16386515 aaaattaattggttacaaaatttattatgtaaacttatatgtgtattaaatatacattaga
16386456

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||| || ||| ||||| ||||||||||||||||||||||||| | ||||| ||
Sbjct: 16386455 aatttttagtcctgtatatagtgacattaattattttataacataattggctctattagctc
16386396

Query: 5237 agttggtagagcattatggttaataatgtgaaagtca 5273
 | ||| || |||| | ||||||||| |||||||||
Sbjct: 16386395 aattgatttgagcgtcatgttaataacgtgaaagtca 16386359

Score = 145 bits (73), Expect = 1e-31
Identities = 118/133 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
 ||||||||||||| ||||||||||||||| ||||||| |||| || |||||||||||||||||
Sbjct: 36353548 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatacattaga
36353607

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||| ||||| || ||| ||||||||||| |||| ||||||||| ||||| ||
Sbjct: 36353608 aatttttagtattatatataatgacattaattatttcataatataattgatctattagctc
36353667

Query: 5237 agttggtagagc 5249
 |||||||||||||
Sbjct: 36353668 ggttggttagagc 36353680

Score = 145 bits (73), Expect = 1e-31
Identities = 82/85 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 43886576 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatattcta
43886635

Query: 1703 tcaagtaccataacttctatccaaac 1727
|||||
Sbjct: 43886636 tcaagtaccataacttcgattcaaac 43886660

Score = 143 bits (72), Expect = 6e-31
Identities = 180/216 (83%)
Strand = Plus / Minus

Query: 5125 ttgttacaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttag
5184
|||||
Sbjct: 18557806 ttgtcacaaaatttattaattaaatttacatgcgcattagatatatacattagaaatttttag
18557747

Query: 5185 tgttatatatttagtgaaattaattattttataacataattgatgtattagttcagttgggtt
5244
|||||
Sbjct: 18557746 tgttatgtataacaacattatttattttaaataattagttctattaatttagttgggtt
18557687

Query: 5245 agagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaattt
5304
|||||
Sbjct: 18557686 agagtgttggttaataacctgaaagtcacatgtttgattcttgcttggaataattt
18557627

Query: 5305 taaattaatttgtaaaatatatttttgaaaaaaaaa 5340
|||||
Sbjct: 18557626 taaattaatttcgtaacacatatattttgaaagaaaaa 18557591

Score = 139 bits (70), Expect = 9e-30
Identities = 127/146 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
|||||

Sbjct: 10716038 aaaattaattggttacaaaatttattatataaaatttacatgtacgttaaataacattaga
10716097

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 10716098 aatttttagtggtgtacatagcgacattaattattttataacataattagcatattagttt
10716157

Query: 5237 agttggtagagcattatgttaataa 5262

||||
Sbjct: 10716158 agttaattagagcgatcatgttaataa 10716183

Score = 139 bits (70), Expect = 9e-30
Identities = 142/166 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176

|||||
Sbjct: 20461722 aaaattaattgtcacaaaatttattatgtaaatttacatatgcattaaataacattaga
20461663

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 20461662 aatttttagtggtgtatatagtgacattaattattttataacataattattctattacctc
20461603

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaa 5282

|||||
Sbjct: 20461602 agttggttaaagttttgtgctaaaaatgtgaaattcatatgttcaa 20461557

Score = 137 bits (69), Expect = 4e-29
Identities = 108/121 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176

|||||
Sbjct: 7338354 aaaattaattatcacaaaatttattatctaaatttatatgtgaattaaataacattaga
7338413

Query: 5177 aat t t t t a g t g t t a t a t t t t a g t g a a a t t a a t t a t t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236

|||||
Sbjct: 7338414 aat t t t a g t g t t a t a t a t a a t g a t a t t a a t t a t t t t a a a c a t a a t t g a t c t a t t a g t t c
7338473

Query: 5237 a 5237
|
Sbjct: 7338474 a 7338474

Score = 137 bits (69), Expect = 4e-29
Identities = 115/129 (89%), Gaps = 1/129 (0%)
Strand = Plus / Minus

Query: 5117 a a a a t t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a a t a t a c a t t a g a
5176

|||||
Sbjct: 23668969 a a a a t t a a t t g t c a c a a a a t t t a t t a t c t a a a t t t a c a t g t g c a t t a a a t a t a c a t t a g a
23668910

Query: 5177 aat t t t a g t g t t a t a t t t t a g t g a a a t t a a t t a t t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236

|||||
Sbjct: 23668909 aat t t t a g t a t t a t a t a t a g t g a c a t c a a t t a t t t t a - a a c a t a a t t g g t c t a t t a g c t t
23668851

Query: 5237 a g t t g g t t a 5245
|||||
Sbjct: 23668850 a g t t g g t t a 23668842

Score = 133 bits (67), Expect = 6e-28
Identities = 145/171 (84%)
Strand = Plus / Minus

Query: 5117 a a a a t t a a t t g t t a c a a a a t t t a t t a t c t a a a t t t g c a t g c a c a a t a a a t a t a c a t t a g a
5176

|||||
Sbjct: 4130146 a a a a t t a a t t g t c a c a a a t t t t a t t a t g t a t a t t t a t a t g t g c a t t a a a t a t a c a t t a a a
4130087

Query: 5177 aat t t t a g t g t t a t a t t t t a g t g a a a t t a a t t a t t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236

||
Sbjct: 4130086 a a a t t t a g t a t t a t a t a t a g c g a c a t t a a t t a t t t t t a t a a t a t a a t t g a c c t a t t a g t t t
4130027

[illegible]

Sbjct: 2010132 ttaatgttatatatagttacgttaattatTTTataacataattgatctattagctcagtt
2010073

Query: 5241 ggtagagcattatgttaataa 5262
|| ||||| || |||||
Sbjct: 2010072 ggtagagcgttggttaataa 2010051

Score = 129 bits (65), Expect = 9e-27
Identities = 104/117 (88%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattag
5175
||||||| ||||||| ||||| || |||||||
Sbjct: 8876166 aaaaattaattattacaaaatttattatgttaaatttatatgagcattaaatatacattat
8876225

Query: 5176 aaatTTtagtggttatatttagtgaaattaattatTTTataacataattgatgtatta 5232
||||||| ||||||| || || ||||||| |||||||
Sbjct: 8876226 aaatTTtaattgttatatatagcgcattaaattatTTTataacataattggtgtatta
8876282

Score = 129 bits (65), Expect = 9e-27
Identities = 132/153 (86%), Gaps = 1/153 (0%)
Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
6575
||||||| ||||||| ||||||| ||||| | ||||||| |||||
Sbjct: 23485961 acaagttgaattgaactaaaatatttaaattataaaacattt-tgaaattaccaacaata
23485903

Query: 6576 gaacaaaatattTaaatttgaaataatacaacaaaaattTaaatacaaacatattggc
6635
||| || ||||||| ||||||| ||||| || ||||||| |||||
Sbjct: 23485902 gaataagatatTTaaatttgaaataatacatcaaaattTcaaaatacaagactatgac
23485843

Query: 6636 ataaaaattaatgttggttgccctgagcctacaca 6668
||||| |||| ||||||| ||||||| |||||
Sbjct: 23485842 ataaatttaacattgttggttgagccaacaca 23485810

Query: 6874 ttttcagcgtatacacaagatgtatgttagttcctataactcatgggtgagcatgcttataaa
 6933

||||| | ||||||| || | || |||||| | |||||||||||||||| || ||
 Sbjct: 12243569 ttttcaacttatacacatgatacatatagttcttgtactcatgggtgagcatgtttacaag
 12243510

Query: 6934 ca---acaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacc
 6990

|| ||||||||| |||| | ||||||| |||||| | ||||||| | |||| |
 Sbjct: 12243509 cagcaacaacatgaaaacaaggcatgtgcaatttttggaatttgtcataatcacatcatt
 12243450

Query: 6991 tttcatctagcttgaccatgaaatttctcactagtt-gaatctctctctccagttaattg
 7049

|||||| | || | || | || || || | | | |||||| | |||||
 Sbjct: 12243449 tttcatccagcctaaccgtgagatttc-cagtgggtcgaatctgtctctcaggttaattg
 12243391

Query: 7050 tctcctagactaagaattgtatgtcgcatthaatcgaactcaagaacaatgtgagagtttg
 7109

||||| || | |||| | || ||||||| || | |||||||||||||||| ||||
 Sbjct: 12243390 tctcctggaccaagaactgtgtgtcgcatcaatcaaactcaagaacaatgtgagtgttt
 12243331

Query: 7110 cctttttctgtatgtctttcatagccttggttaataacttttgtataaacttcaccaaag
 7169

|||| || | |||||| | || | |||||| | |||| | ||||||||| |||||
 Sbjct: 12243330 tctttctctatgtgtcttccatgactttgttttagtacttgtgtataaacttggtcaaag
 12243271

Query: 7170 taatcactcttgcgacttctctcccccttgggtgaacaatgcattacacctagtagg
 7229

||| || | ||| || | || || | ||||||||||||| |||| | || || |
 Sbjct: 12243270 taagcattgtgtgacatctttccttatttgggtgaacaatgtgttacaacttatatatg
 12243211

Query: 7230 ttgatttta 7238

|||||||
 Sbjct: 12243210 ttgatttta 12243202

Score = 125 bits (63), Expect = 1e-25
 Identities = 114/131 (87%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaataacattaga
 5176

||||||||||| ||||||||| |||| | || | | ||||||| |||||

Sbjct: 15208680 aaaattaattggttataaaaattttattatgttaaacttatgtgtatattaaatatatattaga
15208621

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
5236

|||||
Sbjct: 15208620 aatttttagtggttatataataacactaattatttttataacataattgatttattagttc
15208561

Query: 5237 agttgggttaga 5247

|||||
Sbjct: 15208560 agttgattaga 15208550

Score = 125 bits (63), Expect = 1e-25
Identities = 66/67 (98%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
1705

|||||
Sbjct: 16340418 gccttatcccattaggtgggggtcggctacatggatcaacttccgccataatgttctatca
16340477

Query: 1706 agtacca 1712

|||||
Sbjct: 16340478 agtacca 16340484

Score = 123 bits (62), Expect = 5e-25
Identities = 131/154 (85%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattggttacaaaaattttattatctaaatttgcatgcacaataaatatacat
5174

|||||
Sbjct: 10716017 aaaaaattaattatcacaaaaattttattatgttaaatttcatgtacattaaatatacat
10715958

Query: 5175 gaaattttagtggttatatttagtgaaattaattatttttataacataattgatgtattag
5234

|||||
Sbjct: 10715957 taaattttattggttatataataacaattaattatttttataacataattggcttattag
10715898

Query: 5235 tcagttgggttagagcattatgttaataatgtgaa 5268

|||| || |||||| ||| ||||||||| |||||
 Sbjct: 10715897 tcaatttggttagaacatcgtgttaataacgtgaa 10715864

Score = 123 bits (62), Expect = 5e-25
 Identities = 105/118 (88%), Gaps = 1/118 (0%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
 5175

||||||||||| | ||||||||||||| ||||||| ||| || |||||||||||||
 Sbjct: 13431670 aaaaattaattatcacaaaatttattatgtaaatttacatgtccattaaatatacattag
 13431611

Query: 5176 aaatttttagtggttatatttagtgaaattaattttttataacataattgatgtattag
 5233

||||||||||||||||| || ||| ||||||||| ||||||||||||||||| | |||||
 Sbjct: 13431610 aaatttttagtggttatatataatgatattaatta-tttataacataattggttctattag
 13431554

Score = 123 bits (62), Expect = 5e-25
 Identities = 116/134 (86%)
 Strand = Plus / Plus

Query: 5128 ttacaaaatttattatctaaatttgcacataaatatacattagaaatttttagtgt
 5187

||||||||||||||||| |||||| |||| || ||||||||| | |||||||||||||
 Sbjct: 15392440 ttacaaaatttattatgaaaatttacatgtgtcattaaatataaaaatagaaatttttagtgt
 15392499

Query: 5188 tatatttagtgaaattaattttttataacataattgatgtattagttcagttgggttaga
 5247

||||| ||| ||||||||||||||||| ||||||||| |||||| ||| |||||||||
 Sbjct: 15392500 tatatatagcaaaaattaattttttataatataaattgatctattagctcaattgggttaga
 15392559

Query: 5248 gcattatgttaata 5261

| || |||||||||
 Sbjct: 15392560 gtgttggtggttaata 15392573

Score = 123 bits (62), Expect = 5e-25
 Identities = 104/118 (88%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5175
|||||
Sbjct: 38391266 aaaaattaattgtttcaaaatttattatataaaatttacatatgcattaaatatacatag
38391325

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattag
5233
|||||
Sbjct: 38391326 aaatTTtagtgTtatatataactacattaattatTTTataatataattgatctattag
38391383

Score = 123 bits (62), Expect = 5e-25
Identities = 164/198 (82%)
Strand = Plus / Minus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
7101
|||||
Sbjct: 46286961 gttaattgtctcctggattaagaatcatgttttgcattgattgaactcaagaacaatgtg
46286902

Query: 7102 agagtttgcctttttctgtatgtctttcatagccttgTTtaacttttgtataaaacttc
7161
|||||
Sbjct: 46286901 agagtttgcctttctctatgcaccttttataatcttgTTtagtacttgtgtataaaacttg
46286842

Query: 7162 accaaatgtaatcactcttgcgacttctctccccctttggttgaacaatgcattacacct
7221
|||||
Sbjct: 46286841 gtcaaatataatcattgttgggacttctctccctttatagttaaacaatgcacacct
46286782

Query: 7222 agtataggTTgattttac 7239
|||||
Sbjct: 46286781 tgtataagTTgattttac 46286764

Score = 121 bits (61), Expect = 2e-24
Identities = 112/129 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5176

```
Query: 5176      aaatttttagtgttatatatttagtgaaattaattattttataacataattg 5224
                |||||||
Sbjct: 38390972 aaatttttagtgttatatataacgatattgattattttataacataattg 38390924
```

Score = 119 bits (60), Expect = 9e-24
 Identities = 159/191 (83%), Gaps = 2/191 (1%)
 Strand = Plus / Plus

Query: 5131 caaaatttattatctaaatttgcacatgcacaataaatatacattagaaatTTtagtggtat
 5190
 ||||||||||||| ||||||| ||| || ||||||||||||||| |||||||||||||||
 Sbjct: 4059175 caaaatttattatgttaaatttacctgtgcattaaatatacattataaattTTtagtggtat
 4059234

Query: 5191 atttagtgaaattaattatTTTataacataattgatgtattagttcagttgggttagagca
 5250
 || || | ||||||||||||||||||||| |||| | || ||||||| |||
 Sbjct: 4059235 atataactacattaattatTTTataacataatttgcctattaactcaattgggttgagtg
 4059294

Query: 5251 ttatgttaataatgtgaaagtcaaaagttcaattcttacttggtatcattaatTTTaaatt
 5310
 ||| ||||||| ||||||||| | ||| | ||||||| || |||||||||||||||
 Sbjct: 4059295 tta--ttaataatttgaaagtcacatgtttgaatcttacctgtatcattaatTTTaaata
 4059352

Query: 5311 aatttgtaaaa 5321
 |||||||||
 Sbjct: 4059353 aatttgtaaaa 4059363

Score = 117 bits (59), Expect = 3e-23
 Identities = 86/95 (90%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 ||||||||||| ||||||||||| ||||||||||| || |||||||||||||||
 Sbjct: 51997 aaaattaattgtcacaaaatttattatgttaaatttgcacatgtgcattaaatatacattaga
 52056

Query: 5177 aatttttagtggttatatttagtgaaattaattattt 5211
 ||||||||||||||| || || |||||||||||
 Sbjct: 52057 aatttttagtggttatataacgacattaattattt 52091

Score = 117 bits (59), Expect = 3e-23
 Identities = 62/63 (98%)
 Strand = Plus / Plus

Query: 1648 cttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatcaag
1707
|||||
Sbjct: 3994166 cttatcccactaggtgggggtcggctacatggattaacttccgccataatgttctatcaag
3994225

Query: 1708 tac 1710
|||
Sbjct: 3994226 tac 3994228

Score = 117 bits (59), Expect = 3e-23
Identities = 95/107 (88%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177
|||||
Sbjct: 40885589 aaattaattgtcacaaaatttattatgcaaatttacatgtacattaaatatacattaaaa
40885530

Query: 5178 attttagtggttatattttagtgaaattaattatttataacataattg 5224
|||||
Sbjct: 40885529 ttttagtggttatatatagcaacattaattatttataacataattg 40885483

Score = 115 bits (58), Expect = 1e-22
Identities = 112/130 (86%)
Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatttgcacataaatatacattagaa
5177
|||||
Sbjct: 4720750 aaattaattatcataaaaatttattatgtaaatttacatgtgcattaaatatacattaaaa
4720809

Query: 5178 attttagtggttatattttagtgaaattaattatttataacataattgatgtattagttca
5237
|||||
Sbjct: 4720810 attttagtggttatataaacgacattaatcattttataacataattgatctattgggtta
4720869

Query: 5238 gttgggttaga 5247
||||
Sbjct: 4720870 gttgattaga 4720879

Score = 113 bits (57), Expect = 5e-22
Identities = 75/81 (92%)
Strand = Plus / Plus

Query: 6396 atatatttatgttttatcattttttaagagttgaaatcctttgtatattttatattttga
6455
|||||
Sbjct: 1824262 atatatttatgttttattgttttttaaaagttgaaatcctttctatattttatattttga
1824321

Query: 6456 ttattataatacataattaaa 6476
|||||
Sbjct: 1824322 ttatcaaaatacataattaaa 1824342

Score = 113 bits (57), Expect = 5e-22
Identities = 123/145 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 4565665 aaaattaattgtcacaaaatttattatgttaaatttacgtgtgtagtaaatacattaaa
4565606

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 4565605 aatttttagtattatatataacaacattaattattttataacataattgatctattagctc
4565546

Query: 5237 agttgggttagagcattatgttaata 5261
|||||
Sbjct: 4565545 agttgatcatagtgttatgttaata 4565521

Score = 113 bits (57), Expect = 5e-22
Identities = 108/125 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 15759845 aaaattaattgttacaaaatttattatcatgttaaatttacatgtgtattaaatacattaaa
15759904

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||| ||||||| || ||| |||||||||||||||| ||||||| | ||||| ||
Sbjct: 15759905 aattttaatggttatatatattgatattaattattttataatataattggtctattaactc
15759964

Query: 5237 agttg 5241

|||||
Sbjct: 15759965 agttg 15759969

Score = 113 bits (57), Expect = 5e-22
Identities = 133/157 (84%), Gaps = 1/157 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||||| |||||||||||||||| ||||||| ||| | ||||||||| |||
Sbjct: 22278257 aaaattaattattacaaaatttattatataaaattta-atgtgcggttaaatacactaaa
22278315

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||| ||||||| || ||| |||||||||||||||| ||||||| ||||| |
Sbjct: 22278316 aatttttagtggttatataatgacattaattattttataatataattgacttattacctt
22278375

Query: 5237 agttggtagagcattatggttaataatgtgaaagtca 5273

||||| ||||| ||||||| ||||| || |||||||||
Sbjct: 22278376 agttgattagaacattatgctaataatgatatgaaagtca 22278412

Score = 111 bits (56), Expect = 2e-21
Identities = 95/108 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||||| |||||||||||||||| ||||||| ||||| || ||||||||| |||||
Sbjct: 12341260 aaaattaattgtaacaaaatttattatttaaatttacatgcgcattaaatacattaga
12341201

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224

|| ||||| ||||||| ||||| | ||||| ||||||| |||||||||
Sbjct: 12341200 aagtttattgttatgttttagcaatattattttttgtaacataattg 12341153

Score = 111 bits (56), Expect = 2e-21
 Identities = 141/168 (83%), Gaps = 1/168 (0%)
 Strand = Plus / Plus

Query: 5170 cattagaaatTTtagtgTTtatTTtagtgaaattaattTTTtataacataattgatgta
 5229
 ||||||||||||||| ||| ||| || ||||||||||||||||||||| ||
 Sbjct: 23347333 cattagaaatTTtagtgcaatatatagcgacattaattTTTtataacataattggccta
 23347392

Query: 5230 ttagttcagttggTTtagagcattatgttaataatgtgaaagtcaaaagttcaattcttac
 5289
 ||| || ||||||| ||| | || ||||||| | ||||||| ||||||||| |||
 Sbjct: 23347393 ttaatttagttggctagattgtggtgctaataacttaaaagtcacaagttcaattcctac
 23347452

Query: 5290 ttggatcattaatTTTtaaattaatttgtaaaatatTTTTgaaaaaa 5337
 || | ||||||||||||||||||| ||| |||||||||||||
 Sbjct: 23347453 tta-accattaatTTTtaaattaatttggaaaacatatTTTTgaaaaaa 23347499

Score = 111 bits (56), Expect = 2e-21
 Identities = 113/132 (85%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgTTtacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176
 ||||||||||||||| ||||||||||||| ||||||| ||| ||| ||| |||||||||
 Sbjct: 45669509 aaaattaattgTTtataaaaatttattatttaaatttacatgaacattacatatattaga
 45669568

Query: 5177 aatTTtagtgTTtatTTtagtgaaattaattTTTtataacataattgatgtattagttc
 5236
 || |||||||||||| | ||| | ||||| ||||||||||||| ||||| | ||||| ||
 Sbjct: 45669569 aagTTtagtgTTtatgtatagcaacattTTTtattTTTtataacacaattgggtctattaactc
 45669628

Query: 5237 agttggTTtagag 5248
 | |||||||||
 Sbjct: 45669629 aattggTTtagag 45669640

Score = 109 bits (55), Expect = 8e-21

Query: 7515 aaacttgattcaagggttcattgtatcatcgaggtattcacccaaaccctccaaattcaaa
7574
||||| ||||||||| ||| | ||||||||| ||||||||| ||||| |||
Sbjct: 35403634 aaactcgattcaagggttcattgcttgatcgaggtattcatccaaaccctaaaaattgaaa
35403575

Query: 7575 gagcttgcagaaactgggtgggtgtgcatatgtttatgtggg 7618
||||| | ||| ||||||||| ||||||| ||||||| |||||||
Sbjct: 35403574 gagcttctataaattgggtgggtggatgtgcacatgtttgtgtggg 35403531

Score = 107 bits (54), Expect = 3e-20
Identities = 110/126 (87%), Gaps = 2/126 (1%)
Strand = Plus / Plus

Query: 4762 tgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTTatcaata
4820
||||| ||||||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 23881897 tgttaatctttttattggtacgataagtaacaattaatgagcaacaactcttcaccaata
23881956

Query: 4821 tcatagctttgtttagaaaaaagagatttaataattaatagctaaagaaatccaaaagt
4880
||||| ||| ||||||||| ||||||||| ||||||||| ||||||||| ||||||||| |||
Sbjct: 23881957 tcatagctttatttagaaaa-aagagatttaatagttaatagctaaagaaatccaaaaga
23882015

Query: 4881 ttttct 4886
|||||
Sbjct: 23882016 ttttct 23882021

Score = 107 bits (54), Expect = 3e-20
Identities = 123/146 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
||||| ||| ||||||||| ||||||||| ||||| ||||| ||| ||||||| ||||| |
Sbjct: 35427039 aaaattaattgtcacaaaatttattattaaaattacatgcgcattaaatatgcattata
35426980

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 35426979 aatttttagtggttatgtatagtaacattattttattttataacgtaattggctcattatctc
35426920

Query: 5237 agttggtagagcattatgttaataa 5262
| ||||| ||||| ||||| |||||
Sbjct: 35426919 aattggtagagcgttatgctaataa 35426894

Score = 107 bits (54), Expect = 3e-20
Identities = 168/205 (81%), Gaps = 7/205 (3%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
| ||||| ||||| | ||||| ||||| ||||| ||||| | ||||| |||||
Sbjct: 42733240 aaaattaattgtcataaaaatttattatgttaaatttacatgtgtattaaatataatcttaaa
42733299

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42733300 aatttttagtggttata--tagcaatattaattattttataaatatgattaacctattaactc
42733357

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42733358 agttggtagagtattgtgttaataatttgaaaatca-----taaaatcttgcacatgggtc
42733412

Query: 5297 attaatTTTaaattaatttgtaaaa 5321
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42733413 attaatTTTaaattaatttgtaaaa 42733437

Score = 105 bits (53), Expect = 1e-19
Identities = 143/173 (82%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175
| ||||| ||||| | | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7047989 aaaaattaattatcataaaaatttattacataaaaattacatgtgcattaaatatacattag
7047930

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

```
Query: 6484      ttaattgaaatta-aaaaatatatattttaactgacaagttgacttgaactaaaatattta  
6542            ||| |  
Sbjct: 42640655 ttaattgaaattttaaaaaaaaaatatatttaaccaataatttaaattaaattaaaatattta  
42640596
```

Query: 6543 aattacaaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataat
 6602
 ||||| ||||||||||| |||||| ||||||||||| ||||||||||| || ||| |||
 Sbjct: 42640595 aattataaaatagatatataaaattaaaaacaatagaataaaatatttaaattaaaaaaat
 42640536

Query: 6603 acaacaaaa 6611
 |||||||||
 Sbjct: 42640535 acaacaaaa 42640527

Score = 105 bits (53), Expect = 1e-19
 Identities = 118/139 (84%), Gaps = 3/139 (2%)
 Strand = Plus / Minus

Query: 6882 gtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata---aacaaca
 6938
 ||||||||| ||||||||||||| ||||||||||||||||| ||||| | |||||
 Sbjct: 46287122 gtatacacatgatgtatgtagtttctataactcatggtgagcatgcttacaagtagcaaca
 46287063

Query: 6939 acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
 6998
 ||||| || ||| ||||||||| ||||| ||||| ||| ||||| ||||| |||||
 Sbjct: 46287062 acatgcgagcaaggcatgtgcacttttttagaatttatcatagtcgcaccacctctcatct
 46287003

Query: 6999 agcttgaccatgaaatttc 7017
 ||||||||| |||||||||
 Sbjct: 46287002 agcttgactgtgaaatttc 46286984

Score = 103 bits (52), Expect = 5e-19
 Identities = 70/76 (92%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176
 ||||||||||||| ||||||||||||| ||||||| |||| | |||||||||||||
 Sbjct: 42758460 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatatacattaga
 42758401

Query: 5177 aatttttagtggttatat 5192
 |||||||||||||
 Sbjct: 42758400 aatttttagtggttatat 42758385

Score = 101 bits (51), Expect = 2e-18
Identities = 120/143 (83%)
Strand = Plus / Plus

Query: 5131 caaaatttattatctaaatttgcacatgcacaataaatatacattagaaattttagtgttat
5190
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 906078 caaaattaattattttaatttacatgcacattaaatatacattaaaaatttgagtgttat
906137

Query: 5191 atttagtgaaattaattattttataacataattgatgtattagttcagttggtagagca
5250
| | | | | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 906138 gtataacaatattattttattgtataacataatttgacttattagctcagttggtagagcg
906197

Query: 5251 ttatgttaataatgtgaaagtca 5273
|| || ||||| |||||
Sbjct: 906198 ttgtgctaataacctgaaagtca 906220

Score = 101 bits (51), Expect = 2e-18
Identities = 111/131 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8816424 aaaattaattttcacaaattttttattttaatttacctgcacgtcaaatacattaaa
8816483

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8816484 aattttaatgttatatatagcgatattaattattttataatataattgacttattagttc
8816543

Query: 5237 agttggtaga 5247
| ||| |||||
Sbjct: 8816544 aattgattaga 8816554

Score = 101 bits (51), Expect = 2e-18
Identities = 123/147 (83%)
Strand = Plus / Minus

|||||

Sbjct: 2416413 aaaattaattgtccaaaaatttattatctaaattaatatgtgtattaaatatacattaga
2416472

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
5236

||||||| | || ||| || || |||| ||||||||| ||||||| | ||||||| ||
Sbjct: 2416473 aatTTTattatTTTtat--agcgatattatTTTattTTTataatataaattggTTTattagctc
2416530

Query: 5237 agttggTtagagcattatgtTtaataatgtgaaagTcaaaagTtcaattcttacttggaTc
5296

| ||| ||| ||||| | | ||||| ||||| | ||| ||||| | ||||| |
Sbjct: 2416531 aattgattaaagcattgtactggTaatgTaaaagTcacatgtTtaattcctctatggacc
2416590

Query: 5297 attaatTTTtaaattaattTgtaaaatatatTTTtgaa 5333

||||||||||||||||| |||||||||||||||||
Sbjct: 2416591 attaatTTTtaaattaattcataaaaatatatTTTtgaa 2416627

Score = 99.6 bits (50), Expect = 8e-18
Identities = 130/156 (83%), Gaps = 3/156 (1%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattTTTggTTTacctgattctTggatatccattTTTggtgtgt
6737

||||||||||| ||||||||||||| || | ||||||||| ||||||||||| ||||| |
Sbjct: 16846506 atgcgacacataaaaacatcattTTTgattgatctgattctTtagatatccattTcagtgtat
16846447

Query: 6738 atacgagaggagacatgacaacctTTtagaattTctTTTcattTTTgggTtgggggcaaatt
6797

||| ||||| ||||||||||||||||| ||||||||||||||| ||| | ||| |||||
Sbjct: 16846446 atatgagag---acatgacaacctTTTaaaattTctTTTcatctTtagactgagacaaatt
16846390

Query: 6798 cttggcttgTgacatggTgaccaacatgctTcattg 6833

||||||| ||||| | | ||||| ||||| |||||
Sbjct: 16846389 cttggctcgtgacacgataaccaatatgctTtattg 16846354

Score = 97.6 bits (49), Expect = 3e-17
Identities = 83/93 (89%), Gaps = 1/93 (1%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatTTtagtgTTa
5189
||||| ||||| ||||| ||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16453219 acaaaatttattatgtaaatttacatgtacattaaatataaaattaaaatTTtagtgTTa
16453160

Query: 5190 tatttagtgaaattaattattttataacataat 5222
||| ||||| ||||| ||| ||| ||||| ||||| |||||
Sbjct: 16453159 tatatagtgatattatttta-tttataacataat 16453128

Score = 95.7 bits (48), Expect = 1e-16
Identities = 129/156 (82%)
Strand = Plus / Minus

Query: 6678 atgCGacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737
|||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 23485778 atgcaacacacggaacattgttttggttgacctacttctcggatatccattttggtgtgg
23485719

Query: 6738 atacgagaggagacatgacaacctttagaattttcttttcatttttgggttggggcaaatt
6797
||||| ||||| || ||||| || ||||| ||||| || ||||| ||||| ||||| |||||
Sbjct: 23485718 atacgagaggaggcaggacaaccttggaattttcttttcctgtctgggtcagggcaaattc
23485659

Query: 6798 cttggcttgTgacatggTgaccaacatgcttcattg 6833
||| || ||||| ||||| || ||| ||||| |||||
Sbjct: 23485658 attgactcgtgacacggTggctaatacgcttcattg 23485623

Score = 95.7 bits (48), Expect = 1e-16
Identities = 112/132 (84%), Gaps = 1/132 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36353355 aaaattgattgtcacaaaatttattatgtaaatttacatgtgcattaa-tatacattaga
36353297

Query: 5177 aatttttagtgTTatatttttagtgaaattaattatttttataacataattgatgtattagttc
5236
||||| ||||| ||||| ||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36353296 aatttttagtgtaatatatagcggcattaattatttttataacgtaattcgcctattagctt
36353237

Query: 5237 agttggtagag 5248
|||||||
Sbjct: 36353236 agttggtagag 36353225

Score = 93.7 bits (47), Expect = 5e-16
Identities = 74/83 (89%)
Strand = Plus / Minus

Query: 7297 ccccatcgccagccaccatcccatgagagagtcacttttcttggtgaatcttcctaagc
7356
||||||| ||||| | || ||||| ||||| ||||| ||||| |||||
Sbjct: 36391493 ccccatcgccagccaccattctatgtgagagtcacatttcttggtgaatcttcctaagc
36391434

Query: 7357 taattaattgtagttcagcttg 7379
||||||| |||||
Sbjct: 36391433 caattaattgtagttcagcttg 36391411

Score = 89.7 bits (45), Expect = 8e-15
Identities = 108/129 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 905500 aaaattaattgtcacaaaatttattatttaaatttacatacgcatataacataaga
905441

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||||| ||||| | || | ||||| ||||| ||||| ||||| |||||
Sbjct: 905440 aatttttaattgtatgtataacaacattatttattttataatgtaattgactcattagctc
905381

Query: 5237 agttggtaga 5245
|||||||
Sbjct: 905380 agttggtaga 905372

Score = 89.7 bits (45), Expect = 8e-15
Identities = 93/109 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 15759743 aaaattaattgtcacaaaatttattatgtaaatttaaagtgtgtatttaataacattaaa
15759684

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225

|| |||||
Sbjct: 15759683 aaatttagtggttatataacaatattaattattttataacataattga 15759635

Score = 89.7 bits (45), Expect = 8e-15
Identities = 111/133 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 16745743 aaaattaattgttatataaaattaattatgtaaacttatatgtatattaaatacattaga
16745684

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 16745683 aatttttagtattatatatagctatattaattattttttaacatgattggcttattaggtc
16745624

Query: 5237 agttggtagagc 5249

| ||||
Sbjct: 16745623 aattgggtagagc 16745611

Score = 87.7 bits (44), Expect = 3e-14
Identities = 59/64 (92%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221

|||||
Sbjct: 38347844 taaatatataattataaaatttttagtggttatatttagtgacattaatgattttataatataa
38347785

Query: 5222 ttga 5225

||||
Sbjct: 38347784 ttga 38347781

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 95/112 (84%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacataa
 5221
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 41847335 taaatatataattagaaatTTtagtgatatataatgatgttaattTTTTtaataa
 41847276

Query: 5222 ttgatgtattagttcagttggTTtagagcattatgttaataatgtgaaagtca 5273
 |||| ||||| | ||||| ||||| | ||| ||||| ||||| ||||| |||||
 Sbjct: 41847275 ttgacctattagcttagttggTTtaaaatattgtgttaataatgagaaagtca 41847224

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 139/170 (81%), Gaps = 3/170 (1%)
 Strand = Plus / Minus

Query: 6831 ttgcacaatttcccaagtaatcatttgtacatgTTtatagatactTTTcagcgatacac
 6890
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 46657155 ttgcacaattctccaaccaatcatttgtatatgTTggagacactTTTctaacaatacacg
 46657096

Query: 6891 agatgtatgtagttcctataactcatggTgagcatgcttataaaca---acaacatgagaa
 6947
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 46657095 ggatgtatgtagtttttTgtactaatgatgagcatgcttacaagcagcaacaacatgagaa
 46657036

Query: 6948 caaaacatgtgcattTTTTtgaaattTgtcacagtcacactacTTTcatc 6997
 ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 46657035 caagacatgtgcaacttatgaaattTgtcatagtctcaccacTTTcatc 46656986

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 76/87 (87%)
 Strand = Plus / Minus

Query: 6580 aaaatattttaaattTgaaataatacaacaaaaattTTTaaatacaaacatattggcataa
 6639
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Query: 5014 ataatttt-aataaattatTTTTatgaataaataaaaggTTTTattcttaaatttgcttga
5072

Sbjct: 45150242 ataattttcaataaaactattttatgagtaaataaaagatctcattcttaaatttgtttta
 45150301

Query: 5073 gccctctcaagtccttgagccgc 5095
 | |||||
 Sbjct: 45150302 gccctctcaagtccttgagccgc 45150324

Score = 83.8 bits (42), Expect = 5e-13
 Identities = 84/98 (85%)
 Strand = Plus / Plus

Query: 5126 tgttacaaaattttattatctaaatttgcacataaaatatacattagaaatttttagt
 5185
 |||||
 Sbjct: 15593455 tgttataaaaattttattatctaaacttatatgcatattaattatacattaaaaatttttagt
 15593514

Query: 5186 gttatatttagtgaaattaattattttataacataatt 5223
 | |||||
 Sbjct: 15593515 gatatatatatattgacattaattattttttgacataatt 15593552

Score = 83.8 bits (42), Expect = 5e-13
 Identities = 75/86 (87%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 |||||
 Sbjct: 16060939 taaatatatattagaaatttttagtattatatatattaatgttaattattttttaacataa
 16060998

Query: 5222 ttgatgtattagttcagttgggttaga 5247
 |||||
 Sbjct: 16060999 ttgatctattaattcagctgggttaga 16061024

Score = 83.8 bits (42), Expect = 5e-13
 Identities = 93/109 (85%), Gaps = 2/109 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgca--tgcacaataaatatacatta
 5174
 |||||

Sbjct: 17938600 aaaattaattgtcacaaaatttattatgtaaatttacacgtgtgtattaattatacatta
17938659

Query: 5175 gaaattttagtggttatatttagtgaaattaattattttataacataatt 5223
||||||| ||||||| || ||| ||||||||| |||||||
Sbjct: 17938660 aaaattttaatggttatataatgatattaattattttattacataatt 17938708

Score = 83.8 bits (42), Expect = 5e-13
Identities = 109/130 (83%), Gaps = 1/130 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
||||||| ||||||| ||||||| || ||| || || || ||||||||| ||
Sbjct: 30880041 aaaattaattgttacaaaatttattatgtaaacttatatatgcattaaatatacattaaa
30880100

Query: 5177 aattttagtggttatatttagtgaaattaatta-ttttataacataattgatgtattagtt
5235
|| ||||| ||||||| || ||| ||||||||| || ||||||||| | |||||||
Sbjct: 30880101 aaattttagtattatatataatgacattaattattttttaacataattagttctattagtt
30880160

Query: 5236 cagttgggta 5245
|||||||
Sbjct: 30880161 tagttgggta 30880170

Score = 83.8 bits (42), Expect = 5e-13
Identities = 87/102 (85%)
Strand = Plus / Minus

Query: 6675 ggaatgacacatggaacatcattttgggtttacctgattcttgatataccattttggtg
6734
||||| ||||||||| || ||||| | | ||| || || ||||||||| ||
Sbjct: 46287330 ggaatgtgacacatggaacattgttttggtgatctgcttattagatatccattttggtg
46287271

Query: 6735 tgtatacgagaggagacatgacaacctttagaatttcttttc 6776
||||||| ||||| || ||||||||| |||||
Sbjct: 46287270 tgtatacgagaggagattgaacgacctttagaatttattttc 46287229

Score = 81.8 bits (41), Expect = 2e-12

Identities = 53/57 (92%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaagggttttattcttaaatttgctt 5070
 |||||
Sbjct: 1197936 ataattttaataaattattttatgaataaataaaagacattatttttaaaatttgctt
1197992

Score = 81.8 bits (41), Expect = 2e-12
Identities = 62/69 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176
 |||||
Sbjct: 17938577 aaaattaattgtcacaaaatttattaagtaaatttacatgtacattaaataacattaaa
17938518

Query: 5177 aatttttagt 5185
 |||||
Sbjct: 17938517 aatttttagt 17938509

Score = 81.8 bits (41), Expect = 2e-12
Identities = 107/128 (83%), Gaps = 2/128 (1%)
Strand = Plus / Minus

Query: 5121 ttaattgttacaaaatttattatctaaatttgcacataaataacattagaaatt
5180
 |||||
Sbjct: 20345245 ttaactgttacaaaatttattatgtaaactt--atgtgtattaaataacattagaaatt
20345188

Query: 5181 ttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcagtt
5240
 ||| ||
Sbjct: 20345187 ttaatgatatatataacgacgttaattattttttaacataattgacctattagctcagtt
20345128

Query: 5241 ggtttagag 5248
 | |||||
Sbjct: 20345127 gatttagag 20345120

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 113/137 (82%)
 Strand = Plus / Minus

Query: 7081 atcgaactcaagaacaatgtgagagtttgccttttctgtatgtctttcatagccttggt
 7140
 |||||
 Sbjct: 35410010 atcgaactcaagaacgttgtagtggttgccttttctaagtgcgtctttgatggccttggt
 35409951

Query: 7141 taatacttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttg
 7200
 |||||
 Sbjct: 35409950 tagtacttccatataaaacttggccagatgcaagcaattttgggacttctctccctctttt
 35409891

Query: 7201 gttgaacaatgcattac 7217
 |||||
 Sbjct: 35409890 gttgaacaatgcattac 35409874

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 101/121 (83%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatagcacaataaatatacattaga
 5176
 |||||
 Sbjct: 41789461 aaaatttattgttataaaaatttattatctaaatttataatgcataattaaatataatataaa
 41789402

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 41789401 aaatttagtattacatataacaacattaattattttataatataattaacatattagttc
 41789342

Query: 5237 a 5237
 |
 Sbjct: 41789341 a 41789341

Score = 79.8 bits (40), Expect = 7e-12
 Identities = 92/108 (85%), Gaps = 1/108 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 4388160 aaaattaattgtcacaaaatttattatttaaatttatatgtgcattaaatatacattaaa
4388219

Query: 5177 a-atTTTTtagtgTTatatttagtgaaattaattatTTTTataacataatt 5223
 | |||||
Sbjct: 4388220 atTTTTtagtgTTatataatcaatattaattTTTTataacataatt 4388267

Score = 79.8 bits (40), Expect = 7e-12
Identities = 46/48 (95%)
Strand = Plus / Minus

Query: 5295 tcattaattTTTaaattaatttgTaaaatatTTTTtgaaaaaaaatt 5342
 |||||
Sbjct: 22278199 tcattaattTTTaaattaatttgTaaaatatTTTTtagaaaaaaaatt 22278152

Score = 77.8 bits (39), Expect = 3e-11
Identities = 96/115 (83%)
Strand = Plus / Minus

Query: 5134 aatttattatctaaatttgcacataaatatacattagaaatttttagtgTTatatt
5193
 |||||
Sbjct: 8816316 aatttattattcaaatttacatccgcattaaatacacattaaaaaatttagtgctatata
8816257

Query: 5194 tagtgaaattaattatTTTTataacataattgatgtattagttcagttggttagag 5248
 || | | |||||
Sbjct: 8816256 taataatattaattatTTTTataatataattgacctattttcagttgattagag
8816202

Score = 77.8 bits (39), Expect = 3e-11
Identities = 105/127 (82%), Gaps = 10/127 (7%)
Strand = Plus / Minus

Query: 6316 ttaattgtctatatttTgtTctgtTTTaaattgaaaacaatattatTTTTcatatgtTgt
6375
 ||||| | |||||
Sbjct: 12244422 ttaattatttatatttatgtTTTgtTTTaaattgaaaataatattatTTTTtatatgtTgt
12244363

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| | ||||| | |||| | || | || ||||| | || |
Sbjct: 41789556 aaaattaattatcacaaaatttattatataaatgtacatacgcatataatataatataa
41789615

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
||||| | ||||| || || ||||| || ||||| |||||
Sbjct: 41789616 aatttttaattatataataacgatattaattatcttataacataatt 41789662

Score = 75.8 bits (38), Expect = 1e-10
Identities = 68/78 (87%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggtttattcttaaatttgcttgag
5073
||||| ||||| ||||| ||||| ||||| || || ||||| || || ||
Sbjct: 338544 ataattttaataaaactattttatgaataaataaaaagatatcattcttaaatttattttag
338603

Query: 5074 ccctctcaagtccttgag 5091
||||| |||||
Sbjct: 338604 atctctcaagtccatgag 338621

Score = 75.8 bits (38), Expect = 1e-10
Identities = 92/109 (84%), Gaps = 2/109 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||| ||||| ||||| ||||| |||| | || | ||||| |||||
Sbjct: 420529 aaaattatttggttataaaaatttattatataaaacttatatgtgtattaaatatacattaga
420588

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
||||| ||||| || || || ||||| || ||||| |||||
Sbjct: 420589 aatttttagtggtata--tatcgacattaattattttttaacataattga 420635

Score = 75.8 bits (38), Expect = 1e-10
Identities = 107/130 (82%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattag
 5175
 |||||
 Sbjct: 9267434 aaaaattaattatcacaaaatttattatgtaaatttataatttgcattaaatatatattaa
 9267493

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235
 || |||||
 Sbjct: 9267494 aaatttttaattatataatcgacattaattaatctataacataattgatctattagct
 9267553

Query: 5236 cagttgggta 5245
 || |||||
 Sbjct: 9267554 caattgggta 9267563

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 105/126 (83%), Gaps = 1/126 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
 5176
 |||||
 Sbjct: 12448821 aaaattaattgttatatacaatttattatataaaacttgatatgtattaaatatatattaga
 12448880

Query: 5177 aatttttagtggttatatttagtgaaattaattattttat-aacataattgatgtattagtt
 5235
 |||||
 Sbjct: 12448881 aatttttagtggttatataataatattaattattttttaaacataattaatctattaatt
 12448940

Query: 5236 cagttg 5241
 |||||
 Sbjct: 12448941 tagttg 12448946

Score = 75.8 bits (38), Expect = 1e-10
 Identities = 44/46 (95%)
 Strand = Plus / Plus

Query: 6431 tcctttgtatttttattttatttgattattataataacataaataaa 6476
 |||||
 Sbjct: 14618863 tcctttgtatttttattttatttgattattaaaatacatatttaaa 14618908

Score = 75.8 bits (38), Expect = 1e-10
Identities = 74/86 (86%)
Strand = Plus / Minus

Query: 5229 attagttcagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattctta
5288
 ||||||||||||||||||||||||| || |||||||| | |||||||| | ||| ||| ||
Sbjct: 41881026 attagttcagttggttagagcattgtgctaataatctgaaagtcacatgtttgatttttg
41880967

Query: 5289 cttggatcattaatttttaaattaatt 5314
 ||||| |||||||||||||||||||||
Sbjct: 41880966 tttggacaattaatttttaaattaatt 41880941

Score = 75.8 bits (38), Expect = 1e-10
Identities = 50/54 (92%)
Strand = Plus / Plus

Query: 5013 aataattttaataaaattatatttatgaataaataaaaaggttttattcttaaattt 5066
 ||||||||||||||||||||||||| ||||||||||| ||| |||||||||||||
Sbjct: 45447360 aataattttaataaaattatatttataaataaataaaaatatttcattcttaaattt
45447413

Score = 73.8 bits (37), Expect = 5e-10
Identities = 49/53 (92%)
Strand = Plus / Minus

Query: 5298 ttaatttttaaattaatttgtaaaatatatatttttgaaaaaaaaattataaaaaa 5350
 ||||||||||||||||| ||||||||||| ||||||||||||||||| |||||
Sbjct: 6116298 ttaatttttaaattaattcttaaaatatatatatttgaaaaaaaaattataaaaaa 6116246

Score = 73.8 bits (37), Expect = 5e-10
Identities = 97/117 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||| | ||||||||||||| | ||||| ||||| || ||||||||| ||||| |
Sbjct: 14602807 aaaattaattgtcaacaaatttattatattgaatttacatgcgcattaaatatatataaa
14602866

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattTTTTataacataattgatgtattag
5233

 ||||||| || ||||| || | |||| | ||||| ||||| ||||| |||||
Sbjct: 14602867 aatTTtaatgctatatataacaatattatttattTTTataatataattgatctattag
14602923

Score = 73.8 bits (37), Expect = 5e-10
Identities = 58/65 (89%)
Strand = Plus / Minus

Query: 5128 ttacaaaatttattatctaaatttgcTgcacaataaatatacattagaaattTTtagtgt
5187

 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 22193834 ttacaaaattaattatgtaaatttacatatacattaaatataaattagaaattTTtagtgt
22193775

Query: 5188 tatat 5192
 |||||
Sbjct: 22193774 tatat 22193770

Score = 71.9 bits (36), Expect = 2e-09
Identities = 66/76 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcTgcacaataaatatacattaga
5176

 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9442609 aaaattaattgttataaaaatttattatgtaaacttatatgtgtattaaatatacattaga
9442668

Query: 5177 aatTTtagtgTtatat 5192
 ||||||| |||||
Sbjct: 9442669 aatTTtagtatttatat 9442684

Score = 71.9 bits (36), Expect = 2e-09
Identities = 110/131 (83%), Gaps = 4/131 (3%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcTgcacaataaatatacattaga
5176

 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 39566360 aaaattaattattacaaaattttattatTTTaaattt--atgtgtattaaatatataataga
39566303

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
5236

|||||
Sbjct: 39566302 aatttttagtggttatataataacattaatt-tTTta-aacataattaacctattagttc
39566245

Query: 5237 agttgggttaga 5247

|||
Sbjct: 39566244 aattgattaga 39566234

Score = 69.9 bits (35), Expect = 7e-09
Identities = 89/107 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaattttattatctaaatttgcatagcacaataaatatacattaga
5176

|||||
Sbjct: 1782381 aaaattaattggtcacaaaattttattatataaaatttacatgtgtattaaatatatgtttaa
1782322

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataatt 5223

|||||
Sbjct: 1782321 agttttaatgctatatataataatattaattatTTTataatataatt 1782275

Score = 69.9 bits (35), Expect = 7e-09
Identities = 68/79 (86%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattatTTTataacataa
5221

|||||
Sbjct: 4010632 taaatttacattaaaatttttagtatttatataataacattaattatTTTatagcataa
4010573

Query: 5222 ttgatgtattagttcagtt 5240

|||||
Sbjct: 4010572 ttgatttattagctcagtt 4010554

Score = 69.9 bits (35), Expect = 7e-09

Identities = 56/63 (88%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
 |||||
Sbjct: 7338331 aaaattaattggttacaaaatttattatgtaaatttacatatgcattaaatatacattaaa
7338272

Query: 5177 aat 5179
 |||
Sbjct: 7338271 aat 7338269

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Plus

Query: 5130 acaaaaatttattatctaaatttgcacatgcacaataaatatacattagaaattttagtggtta
5189
 |||||
Sbjct: 16453597 acaaaaatttattatgtaaatttatatgtacattaaatataaaattagaaattttaatggtta
16453656

Query: 5190 tat 5192
 |||
Sbjct: 16453657 tat 16453659

Score = 69.9 bits (35), Expect = 7e-09
Identities = 91/109 (83%), Gaps = 3/109 (2%)
Strand = Plus / Minus

Query: 6909 tactcatggtgagcatgcttataaaca---acaacatgagaacaaaacatgtgcattttt
6965
 |||||
Sbjct: 23485571 tactcatggtgagcatgcttacaagcagcaacaacatgagaataagatatgtgtaatttc
23485512

Query: 6966 tgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaat 7014
 | |||||
Sbjct: 23485511 ttgaatttttcacagtcacaccacctttcatttagcctgatcatgaaat 23485463

Score = 69.9 bits (35), Expect = 7e-09

Identities = 50/55 (90%)
Strand = Plus / Plus

Query: 5282 attcttacttggatcattaattttaaattaatttgtaaaatatatttttgaaaaa 5336
||||| ||||| ||||||||| ||||| ||| | |||||||||
Sbjct: 46427283 attcttgcttggaccattaattttaaattaattcgtaacacatatattttgaaaaa
46427337

Score = 67.9 bits (34), Expect = 3e-08
Identities = 55/62 (88%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaaattttagtgttatatatttagtgaaattaattattttataacataa
5221
||||| ||||||||| | ||||| || ||| ||||||||| |||||
Sbjct: 4130420 taaatataaattagaaaattttaattattatatataatgatattaattattttataatataa
4130479

Query: 5222 tt 5223
||
Sbjct: 4130480 tt 4130481

Score = 67.9 bits (34), Expect = 3e-08
Identities = 73/86 (84%)
Strand = Plus / Plus

Query: 5013 aataattttaataaattattttatgaataaataaaaagggttttattcttaaatgtgcttga
5072
||||| ||||||| ||||| || | ||||||| | ||||||||| |||
Sbjct: 6001911 aataattttaataaactatttcataagtaaaaaaatcacattcttaaatgtgttta
6001970

Query: 5073 gccctctcaagtccttgagccgcccc 5098
| ||||||||| |||||||||
Sbjct: 6001971 gacctctcaagttcttgagccgcccc 6001996

Score = 67.9 bits (34), Expect = 3e-08
Identities = 85/102 (83%)
Strand = Plus / Minus

Query: 5122 taattgttacaaaatttattatctaaatttgcatacacaataaatatacattagaaattt
5181

||||| ||| ||||||||||||| ||||||| ||| | ||||||||| ||||| |||||||
Sbjct: 6523983 taattattataaaaattttattatataaaatttatatgtgtattaaatataaaattaaaaattt
6523924

Query: 5182 tagtggttatatttagtgaaattaattattttataacataatt 5223
|| | ||||||| ||||||| ||||||||||||| |||||||||
Sbjct: 6523923 tattattatataatgtgatgttaattattttttaacataatt 6523882

Score = 67.9 bits (34), Expect = 3e-08
Identities = 64/74 (86%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
||||||||| ||||| ||||||||||||| | || || || |||||||||||||||||||||
Sbjct: 17918804 taaatataaattataaaatttttagtggtcacatataacgacattaattattttataacataa
17918863

Query: 5222 ttgatgtattagtt 5235
|||| | |||||||
Sbjct: 17918864 ttgacttattagtt 17918877

Score = 67.9 bits (34), Expect = 3e-08
Identities = 160/202 (79%)
Strand = Plus / Plus

Query: 7555 ccaaaccctccaaattcaaagagcttgcagaaactgggtgggtggttgatgatgtttatg
7614
||||||||| ||||||| ||||||||||| || ||| ||||| ||||| ||||||| ||||||| ||
Sbjct: 19454053 ccaaaccctccaaattgaaagagcttacaaaaattggtagtgggtgtgcacatgtttgtg
19454112

Query: 7615 tgggtgtgtctacggtgataacataaaaactcaaggcatgtgaagttgaagagtttcccaa
7674
|||| | ||||| ||||| ||| ||| ||||||| ||||||||| ||| ||| |
Sbjct: 19454113 tgggcaggtctgcggtggttaatacaactccaggcatgtgagcttggagatgtctgtga
19454172

Query: 7675 atatagaaaacatagtaattatctcctcatcatcttgcagcatacatgccctgtactgaa
7734
| ||| ||||||||||| |||| | ||||||||||| |||| ||| ||||| |||||||
Sbjct: 19454173 acataaaaaacatagtcattagatcctcatcatcgtgcaacatgcatgttgtgtacttgc
19454232

Query: 7735 aacaatcaccaacaaatgatac 7756
 |||||
Sbjct: 19454233 cacaatcaccaacaaatgatac 19454254

Score = 67.9 bits (34), Expect = 3e-08
Identities = 124/154 (80%)
Strand = Plus / Minus

Query: 7046 attgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagag
7105
 ||||| ||||| | ||||| | ||||| ||||| ||||| |
Sbjct: 23485433 attgtctccaagactaagaatcctgtgtcgcgtcgatcgaactcaagaacagtgtgagt
23485374

Query: 7106 tttgcctttttctgtatgtctttcatagccttggttaatacttttgtataaaacttcacca
7165
 |||| || |||| || || || ||||| ||||| ||||| ||
Sbjct: 23485373 tttgcttttctctgtgcatcttcgatgaccttggttcagtacttgtgtataaaacttgctca
23485314

Query: 7166 aatgtaatcactcttgcgacttctctcccccttt 7199
 |||| | || ||||| ||||| ||||
Sbjct: 23485313 aatgcagacattgttgcgacttctctccctcttt 23485280

Score = 67.9 bits (34), Expect = 3e-08
Identities = 64/74 (86%)
Strand = Plus / Plus

Query: 6594 tgaaataataacaacaaaaattttaaaatacaacaatatggcataaaattaatgttggtg
6653
 |||| ||||| ||||| ||||| |||| || || ||||| |||| |||||
Sbjct: 24206446 tgaaacaataacaacaaaaattttaaaacacaaagaatgtgacataaatttaacattgttg
24206505

Query: 6654 gcctgagcctacac 6667
 || ||||| |||||
Sbjct: 24206506 gcttgagcctacac 24206519

Score = 67.9 bits (34), Expect = 3e-08
Identities = 67/76 (88%), Gaps = 4/76 (5%)
Strand = Plus / Plus

```
Query: 5236      cagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295            |||||
Sbjct: 45431350 caattgattgaagcattgtgttaataacttgaaaatcacatggttgattcttgtttgac
45431409
```

Query: 5296 cattaatttt 5305
 |||||
Sbjct: 45431410 cattaatttt 45431419

Score = 65.9 bits (33), Expect = 1e-07
Identities = 160/201 (79%), Gaps = 1/201 (0%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattag
5175
 ||||| | ||||| ||||| ||||| ||||| | ||||| |||||
Sbjct: 5138385 aaaaattaattatcacaaaatttattatgttaaatttatatgtgtattaaatttatattaa
5138444

Query: 5176 aaattttagtggttatatttagtgaaattaatta-ttttataacataattgatgtattagt
5234
 ||||| | ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 5138445 aaattttaattattatatataatgatattaattatttttataacatgattgatctggttaac
5138504

Query: 5235 tcagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttgga
5294
 ||| || |||| | |||| | |||| | |||| | |||| | |||| | ||||
Sbjct: 5138505 tcatttaggttaaagtggtataactaataacatgaaaatcagatatattaattcctgcttaga
5138564

Query: 5295 tcattaatttttaaattaattt 5315
 ||||| ||||| ||||| ||||| |||||
Sbjct: 5138565 ccattaatttttaaattaattt 5138585

Score = 65.9 bits (33), Expect = 1e-07
Identities = 36/37 (97%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6806803 gccttatcccactaggtgaggtcggctacatggatca 6806767

Score = 65.9 bits (33), Expect = 1e-07
Identities = 90/109 (82%)
Strand = Plus / Minus

Query: 5228 tattagttcagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattctt
5287

 ||||| ||||| ||||| || ||||| || || || || || || || || ||
Sbjct: 9252383 tattagtttagttggttagagtgttgtgtaataatctggaaggcacagattcgaatctt
9252324

Query: 5288 acttggatcattaattttaaatattgttaaaatatatttttgaaaaa 5336

 | || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9252323 gcatgagacattaattttaaatattgttaaaatatattttttaaaaaa 9252275

Score = 65.9 bits (33), Expect = 1e-07
Identities = 39/41 (95%)
Strand = Plus / Minus

Query: 6421 agagttgaaatcctttgtatttttattttatttgattatta 6461

 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 12244020 agagttgaaatcctttgtattttaattttattttattatta 12243980

Score = 65.9 bits (33), Expect = 1e-07
Identities = 87/105 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
5176

 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15572620 aaaattaattattacaaaatttattatgtaaactcatatatgtattaaataacattaga
15572561

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataa 5221

 ||||| ||||| || || || ||||| ||||| ||||| ||||| |||||
Sbjct: 15572560 aattttagtattatatataataatattaattattttttaataataa 15572516

Score = 65.9 bits (33), Expect = 1e-07
Identities = 45/49 (91%)
Strand = Plus / Plus

Query: 5214 taacataattgatgtattagttcagttggttagagcattatgttaataa 5262

 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15572795 taacataattgacttattagttcagtcggttagagcattatattaataa 15572843

Score = 65.9 bits (33), Expect = 1e-07
Identities = 81/96 (84%), Gaps = 2/96 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| ||| ||||| ||||| ||| | ||||| ||| |
Sbjct: 15763288 aaaattaattattataaaaatttattatataaaatttatatgtat--taaatatatatattata
15763231

Query: 5177 aatttttagtggttatatttagtgaaattaattatttt 5212
 ||||| ||||| | | ||||| ||||| |||
Sbjct: 15763230 aattttattggttatatttagtgaaattaattatttt 15763195

Score = 65.9 bits (33), Expect = 1e-07
Identities = 87/104 (83%), Gaps = 2/104 (1%)
Strand = Plus / Plus

Query: 5162 taaatatatacattagaaatttttagtggttatatttagtgaaattaatta--ttttataacat
5219
 ||||| ||| ||||| ||||| ||| | ||||| ||| |||
Sbjct: 17317836 taaatatataattaaaaatttttagtatttatatagagtgagattaattattttttttaacat
17317895

Query: 5220 aattgatgtattagttcagttggttagagcattatgttaataat 5263
 ||||| ||||| ||| ||| ||| ||| | ||||| |||
Sbjct: 17317896 aattgatctattagctcaattgattaaagtatcggtgtaataat 17317939

Score = 65.9 bits (33), Expect = 1e-07
Identities = 78/93 (83%)
Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtggttata
5191
 ||||| ||||| ||| || ||||| ||||| ||| |||
Sbjct: 17519098 aaaatttattatttaaatttacatgtgcattaaatatgtattagaaattgtagtgatatac
17519157

Query: 5192 tttagtgaaattaattattttataacataattg 5224
 ||| | ||| ||||| ||||| |||
Sbjct: 17519158 tataataacattatttattttataacataattg 17519190

Score = 65.9 bits (33), Expect = 1e-07
Identities = 81/97 (83%)
Strand = Plus / Minus

Query: 5145 taaatttgcatgcacaataaatatacattagaaattttagtggttatatttagtgaaatta
5204
 ||||| ||| || ||||| ||| || ||||| ||||| || || |||
Sbjct: 23346913 taaatttacatgtgcattaaatatatatttaaagtttagtggttatataacgatatta
23346854

Query: 5205 attattttataacataattgatgtattagttcagttg 5241
 ||||| ||||| || ||||| |||||
Sbjct: 23346853 attattttataatataattaatttattagtttagttg 23346817

Score = 65.9 bits (33), Expect = 1e-07
Identities = 46/49 (93%), Gaps = 1/49 (2%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttcgcc 1691
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42247654 aacgccttatcccactaggtgag-tcggttacatggatcaacttcgcc 42247701

Score = 65.9 bits (33), Expect = 1e-07
Identities = 109/133 (81%), Gaps = 1/133 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46270216 aaaattaattgtcacaaaatttattatttaattttt-atatatattaaatatacatataa
46270158

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 46270157 aattttaatgttatataacaatattatttattttataatataatttatctattaactc
46270098

Query: 5237 agttggtagagc 5249
 | ||| |||||
Sbjct: 46270097 aattgattagagc 46270085

Score = 63.9 bits (32), Expect = 4e-07
Identities = 35/36 (97%)
Strand = Plus / Plus

Query: 5013 aataattttaataaattatatttatgaataaataaaa 5048
|||||
Sbjct: 76857 aataattttaataaattatatttatgagtaaataaaa 76892

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattg 5156
|||||
Sbjct: 4563376 aaaattaattgttacaaaatttattatgttaaatttacctg 4563415

Score = 63.9 bits (32), Expect = 4e-07
Identities = 92/112 (82%)
Strand = Plus / Minus

Query: 5122 taattgttacaaaatttattatctaaatttgcattgcacaataaatatacattagaaattt
5181
||||
Sbjct: 6142496 taatagttacaaaatttattatgttaaacttatatgtatattaaatatatattagaaattc
6142437

Query: 5182 tagtggttatatttagtgaaattaattatatttataacataattgatgtattag 5233
||
Sbjct: 6142436 taatattatatataacgacatgaattatatttttaacataattaatctattag 6142385

Score = 63.9 bits (32), Expect = 4e-07
Identities = 41/44 (93%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaatattgttaaataatatttttgaaaaaaaaa 5339
|||||
Sbjct: 7457281 cattaatttttaaatattgttaaataatatttttgaaaaaaaaa 7457238

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacg 5156
 ||||||||||||||||||||||||||||| ||||| |||
Sbjct: 9903402 aaaattaattggttacaaaatttattatgttaaatttacacg 9903441

Score = 63.9 bits (32), Expect = 4e-07
Identities = 65/76 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacgacacaataaatatacattaga
5176
 ||||||| ||||||||||||||||||||||||| |||| || ||| | ||||||||||||||| |
Sbjct: 15378092 aaaattagttggttacaaaatttattatataaaacttatatgtgtattaaatatacattaaa
15378151

Query: 5177 aatttttagtggttatat 5192
 |||| |||||||||||
Sbjct: 15378152 aattgtagtggttatat 15378167

Score = 63.9 bits (32), Expect = 4e-07
Identities = 47/52 (90%)
Strand = Plus / Minus

Query: 6313 ttattaattgtctatatatttgtgttctgttttaaattgaaaacaatattatttt 6364
 ||||||||||| ||||||| || | ||||||||||||||||||| |||||||||||
Sbjct: 16846873 ttattaattgtatatatttatgatttgttttaaattgaaaataatattatttt 16846822

Score = 63.9 bits (32), Expect = 4e-07
Identities = 53/60 (88%)
Strand = Plus / Plus

Query: 5166 tatacattagaaatttttagtggttatatttagtgaaattaattattttataacataattga
5225
 ||||||||||||||||||||||||||||| || | ||||||||||| |||||||||||
Sbjct: 23552830 tatacattagaaatttttagtggttatataacaacgttaattattttttaacataattga
23552889

```
Query: 6383      taat ttt ctt atg cat att tt t at g ttt t t atc att t t t t - aag agt tgaa atc ctt t gtatt  
6441            ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 24205987 taat ttt t t --gc at att t t -tat t t t atc att t t t t ga agagt tgaa atc ctt t gtatt  
24206043
```

```
Query: 6677      aatgcgacacatggaacatcatttttggtttacctgattcttggatatccatttttggtgtg  
6736            ||| | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 35410415 aatgcgacacatgaaacataagtttttggttgacctgattctcagatatccatttcggtatg  
35410356
```

Score = 62.0 bits (31), Expect = 2e-06
Identities = 56/63 (88%), Gaps = 1/63 (1%)
Strand = Plus / Plus

```
Query: 4876      aaa 4878
      |||
Sbjct: 6001828  aaa 6001830
```

Query: 5235 tcagttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggg
5294

Sbjct: 16153068 ttagttgattagaacattatgtcaataacct-aaaatcatagcttcaagacttacatgaa
16153126

Query: 5295 tcattaatttttaaattaatttgtaaaatat 5324
||||||| ||||||||| | |||||||||
Sbjct: 16153127 tcattaacttttaaattatctcgtaaaatat 16153156

Score = 62.0 bits (31), Expect = 2e-06
Identities = 50/56 (89%), Gaps = 4/56 (7%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaat 5352
||||||||| ||||||||||| ||||||||||| ||||||||| |||||||||
Sbjct: 17938459 attaatttttaaattaattttataaaatatatttt----aaaaaaattataaaaaaat
17938408

Score = 62.0 bits (31), Expect = 2e-06
Identities = 58/67 (86%)
Strand = Plus / Plus

Query: 7048 tgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtt
7107
||||| | ||| |||||| | |||| | || ||||||||| |||||| | ||| |||
Sbjct: 19434430 tgtctcttggaaccaagaatcgtgtgtcacatcaatcgaactcaagaacagtgtgagtgtt
19434489

Query: 7108 tgccttt 7114
|||||||
Sbjct: 19434490 tgccttt 19434496

Score = 62.0 bits (31), Expect = 2e-06
Identities = 97/118 (82%), Gaps = 2/118 (1%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgtttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
||||||||| ||||||||||| |||| | | || ||||||||| |||||
Sbjct: 20191515 aaaaattaattgtttataaaaatttattatataaaatt--atatatattaaatatacattaa
20191458

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattag
5233

||||||| ||||||| || | ||||||| ||| ||||||||| || |||||||
 Sbjct: 20191457 aaatTTTaaagTTatatataacaacattaattaattTTTaaacataattaatttattag
 20191400

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 52/59 (88%)
 Strand = Plus / Plus

Query: 5282 attcTTactTggatcattaatTTTaaattaattTgTaaaatatattTTTgaaaaaaaaa
 5340

||||||||| ||||||| ||||| ||| ||||||| ||||||| |||||
 Sbjct: 21884520 attcTTactTggattattaatTTTaaattaatcctaagttacattTTTgaaaaaaaaa
 21884578

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 40/43 (93%)
 Strand = Plus / Minus

Query: 5296 cattaatTTTaaattaattTgTaaaatatattTTTgaaaaaaaaa 5338

||||||||| ||||||| ||||| |||||
 Sbjct: 42758360 cattaatTTTaaattaattTgTaaaacaaattTTTtaaaaaaa 42758318

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 61/71 (85%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgTtataaaaatttattatctaaattTgcatgcacaataaatatacattaga
 5176

||||||||| | ||||||| ||||||| ||||| | ||||||| | |||
 Sbjct: 43726191 aaaattaattgTcatataaaaatttattattTaaattTaaatgcatattTaaatataaaaacaga
 43726132

Query: 5177 aatttttagtgt 5187

|||||||||
 Sbjct: 43726131 aatttttagtgt 43726121

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 55/63 (87%)
 Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatTTtagtgTTa
 5189

|||||
 Sbjct: 44917115 acaaaatttattatgtaaatttacatatataTTaaataaaaattagaaatTTtagtgTTa
 44917056

Query: 5190 tat 5192

|||
 Sbjct: 44917055 tat 44917053

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 54/62 (87%)
 Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTatatttagtgaaattaattatTTtataacataa
 5221

|||||
 Sbjct: 4991642 taaatatacattaaaaattTTaatgTTatatataacaatattaattattatataacataa
 4991701

Query: 5222 tt 5223

||
 Sbjct: 4991702 tt 4991703

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 87/106 (82%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattag
 5175

|||||
 Sbjct: 5423685 aaaaattaattatcacacaatttattgtataaaatttacatgtgcattaaatatacattaa
 5423744

Query: 5176 aaatTTtagtgTTatatttagtgaaattaattatTTtataacataa 5221

||| |||| | ||||| || || ||||| |||| ||||
 Sbjct: 5423745 aaaatttaattattatatataacgcatttaattattctataagataa 5423790

Score = 60.0 bits (30), Expect = 7e-06
 Identities = 84/102 (82%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176
 |||||
Sbjct: 15690037 aaaattaattgatacaaaaatttattatgtaaacttatatgtgtattaaatacattaag
15689978

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataaca 5218
 |||||
Sbjct: 15689977 aatttttagtggttatatatatcgacgttaattattttttaaca 15689936

Score = 60.0 bits (30), Expect = 7e-06
Identities = 54/61 (88%), Gaps = 2/61 (3%)
Strand = Plus / Plus

Query: 5120 attaattggttacaaaatttattatctaaatttgcacataaataacattagaaat
5179
 |||||
Sbjct: 15759778 attaattgtcacaaaatttgttatgtaaatttgcacg--cattaaatacattaaaaat
15759835

Query: 5180 t 5180
 |
Sbjct: 15759836 t 15759836

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttttgaaaaa 5336
 |||||
Sbjct: 17918923 tcattaatttttaaattaatttcataaaatatattttttaaaaa 17918964

Score = 60.0 bits (30), Expect = 7e-06
Identities = 30/30 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggt 1672
 |||||
Sbjct: 18622540 aacgccttatcccactaggtggggctcggt 18622511

Score = 60.0 bits (30), Expect = 7e-06
Identities = 42/46 (91%)
Strand = Plus / Minus

Query: 5294 atcattaattttaaattaatttgtaaaatatatttttgaaaaaaaa 5339
|||||
Sbjct: 23267238 atcattaattttaaattaatttcgtaaaacattttttttaaaaaaa 23267193

Score = 60.0 bits (30), Expect = 7e-06
Identities = 57/65 (87%), Gaps = 2/65 (3%)
Strand = Plus / Minus

Query: 7312 ccatcccatgcgagagtcactttt--cttggtggaatcttcctaagctaattaattgtta
7369
||||
Sbjct: 35139855 ccattccatgcgagagttcacttttttctcggtggaatctgactaagctaattaattgttt
35139796

Query: 7370 gttca 7374
||||
Sbjct: 35139795 gttca 35139791

Score = 60.0 bits (30), Expect = 7e-06
Identities = 51/58 (87%)
Strand = Plus / Minus

Query: 7309 ccaccatcccatgcgagagtcacttttcttggtggaatcttcctaagctaattaattg
7366
|||||
Sbjct: 35409763 ccaccatcccatgcgagagtcatttttcttgcgaaatctcgctgagccaattaattg
35409706

Score = 60.0 bits (30), Expect = 7e-06
Identities = 90/109 (82%), Gaps = 2/109 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataataacattaga
5176
|||||
Sbjct: 41431134 aaaattaattgttataaaaatttattatgttaaacttatatttgtattaaataacattgaa
41431193

Query: 5177 aatTTTtagTgTtataTTTtagTgaaattaattatTTTtataacataattga 5225
 ||||| ||||| | | | ||||| ||||| |||||
Sbjct: 41431194 aatTTTtagTggtataTatcg--acattaattatTTTtataacataattga 41431240

Score = 60.0 bits (30), Expect = 7e-06
Identities = 54/62 (87%)
Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggtagagcattatgttaat
5260
 ||||| ||||| ||||| | | | | | | | | | | | | |
Sbjct: 43726116 attaattatTTTtataatgtaattgatttattaatttagttgattagagtattatattaat
43726057

Query: 5261 aa 5262
 ||
Sbjct: 43726056 aa 43726055

Score = 58.0 bits (29), Expect = 3e-05
Identities = 62/73 (84%)
Strand = Plus / Plus

Query: 5120 attaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattagaaat
5179
 ||||| ||||| ||||| || || | | | | | | | | | | |
Sbjct: 16745862 attaattattacaaaatttattatataaaacttatatgtgtattaaatatacattagaaat
16745921

Query: 5180 tttagTgTtataT 5192
 |||| | |||||
Sbjct: 16745922 tttattattataT 16745934

Score = 58.0 bits (29), Expect = 3e-05
Identities = 80/97 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
 ||||| | | ||||| |||| || || | | | | | | |
Sbjct: 17207905 aaaattaattatcataaaaatttattatgtaaacttatatattgattaaatatacactaaa
17207964

Score = 56.0 bits (28), Expect = 1e-04
Identities = 28/28 (100%)
Strand = Plus / Minus

Query: 1365 tgcactactgcatgggcctggcgacccc 1392
|||||||
Sbjct: 1829061 tgcactactgcatgggcctggcgacccc 1829034

Score = 56.0 bits (28), Expect = 1e-04
Identities = 91/112 (81%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221
|||||||
Sbjct: 5422918 taaatatacattaaaaatgtaataatatataacgatattaattattctataataa
5422859

Query: 5222 ttgatgtattagttcagttgggttagagcattatgtaataatgtgaaagtca 5273
|| |
Sbjct: 5422858 ttagtctattagttcagttgattaaagtgttatattaataacgtgtaagtca 5422807

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 1199 atacctttctcggccttttggctaagatcaagtgtagtat 1238
|||||||
Sbjct: 10446722 atacctttctaggccttttggctaagagcatgtgtagtat 10446683

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggctcggctacatggatcaa 1683
|||||||
Sbjct: 13285139 cttatcccactaggtgaggttggctacatggatcaa 13285104

Score = 56.0 bits (28), Expect = 1e-04

Query: 5134 aatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggttatat
5192

||||| ||||| |||| ||| ||||| ||||| ||| |||| | |||||
Sbjct: 6615973 aatttattatttaaatttacatgtacattaaatatacattaaaaaatttaattatat
6616031

Score = 54.0 bits (27), Expect = 4e-04
Identities = 57/67 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

||||| ||||| | | ||||| ||||| ||||| |||| | || ||||| |||| |
Sbjct: 7338067 aaaattaattatcataaaatttattatataaaatttacatgtgcattaaatatattaaa
7338126

Query: 5177 aatttta 5183
|||||
Sbjct: 7338127 aatttta 7338133

Score = 54.0 bits (27), Expect = 4e-04
Identities = 42/47 (89%)
Strand = Plus / Plus

Query: 5300 aatttttaaattaatttgtataaaatatatttttgaaaaaaaaattataa 5346
||||| ||||| ||||| |||| | ||||| |||||
Sbjct: 13175489 aatttttaaattaatttataaaatatattttttataaaaaataattataa 13175535

Score = 54.0 bits (27), Expect = 4e-04
Identities = 88/107 (82%), Gaps = 1/107 (0%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaaatttattatctaaatttgcacatgcacaataaatatacattag
5175

|||| | |||| | ||||| ||||| ||||| |||| | || ||||| ||||
Sbjct: 13675643 aaaaaataattatcacaaaaatttattatgtataaatttacatatatgttaaataataa
13675702

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataat 5222
||| ||||| ||||| || ||| ||| ||| ||||| |||||
Sbjct: 13675703 aaatttttagtggttatataatgatatt-atttggtttataacataat 13675748

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Plus

Query: 7308 gccaccatcccatgcgagagtcacttttct 7338
|||||
Sbjct: 19439283 gccaccatcccatgcgagagttcacttttct 19439313

Score = 54.0 bits (27), Expect = 4e-04
Identities = 45/50 (90%), Gaps = 2/50 (4%)
Strand = Plus / Minus

Query: 6114 ttttttccttagttaagaaacaccgatttcttaattacatttttttatac 6163
|||||
Sbjct: 36392688 tttttttccttagttaagaaat--cgatttcttaactacatttttttatac 36392641

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

Query: 1648 cttatcccactaggtggggtcggctacatggatca 1682
|||||
Sbjct: 37290914 cttatcccactaggggaggtcggctacatggatca 37290948

Score = 54.0 bits (27), Expect = 4e-04
Identities = 51/59 (86%)
Strand = Plus / Minus

Query: 7308 gccaccatcccatgcgagagtcacttttcttgtggaatcttcctaagctaattaattg
7366
|||||
Sbjct: 46286678 gccaccatcccatgcgaaagtctacttttctcgcgaaatctccctaagtcattaattg
46286620

Score = 52.0 bits (26), Expect = 0.002
Identities = 48/54 (88%), Gaps = 1/54 (1%)
Strand = Plus / Minus

Query: 4343 agtgagggttctaaccg-aggtgtgtctattgctggttgaaaactattttcaaac 4395
||||| ||||| | ||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 5625559 agtgagggttctaacaggaggcgctctattgctggttgaaaattatttccaaac 5625506

Score = 52.0 bits (26), Expect = 0.002
Identities = 86/106 (81%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag 5175
||||| ||||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7692113 aaaaaataattatcacaaaatttattatataaaatttatatgtatattaaatatacattaa 7692054

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataa 5221
| | |||| | ||||| || | ||||| ||||| |||||
Sbjct: 7692053 agaatttaatatattatataactatattaattattttataaaataa 7692008

Score = 52.0 bits (26), Expect = 0.002
Identities = 35/38 (92%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtggggtcggctacatg 1677
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 11627771 acaaagccttatcccactaggttaagggtcggctacatg 11627734

Score = 52.0 bits (26), Expect = 0.002
Identities = 26/26 (100%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaaaaaaaca 5571
||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 13212128 acttttttttaaaaaaaaaaaaaaaca 13212153

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 5297 attaatTTTaaattaatttGtaaaatatat 5326
 |||||
Sbjct: 41789295 attaatTTTaaattaatttataaaatatat 41789266

Score = 52.0 bits (26), Expect = 0.002
Identities = 62/74 (83%)
Strand = Plus / Minus

Query: 5162 taaataTataCattagaaatttttagtgTtatattttagtgaaattaattattttataacataa
5221
 ||||| ||||| ||||| ||||| || || |||||
Sbjct: 45645721 taaataTataTattaaaaatttttaagattataTataacgatattaattattttataatataa
45645662

Query: 5222 ttgatgtatttagtt 5235
 || || |||||
Sbjct: 45645661 ttaataTatttagtt 45645648

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 6580 aaaatattTaaatttGaaataataacaacaa 6609
 |||||
Sbjct: 46657432 aaaatattTaaatttGaattaataacaacaa 46657403

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 5548 TTTTTTTTTaaaaaaaaaaaaaacaagtaat 5576
 |||||
Sbjct: 2609089 TTTTTTTTTaaaaaaaaaaaaaagtaat 2609061

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 1646 gccttatccCactaggTggggTcggtacatggatca 1682
 ||||| ||||| ||| |||||

Sbjct: 9400241 gccttattccactaggtgaggttggctacatggatca 9400205

Score = 50.1 bits (25), Expect = 0.007
Identities = 43/49 (87%)
Strand = Plus / Minus

Query: 5168 tacattagaaatTTtagtggttatatttagtgaaattaattatTTtataa 5216
 |||| |||||| || |||||||||| || |||||||||| ||
Sbjct: 10459928 tacactagaaatcTTaatgttatatttaacaaaattaattatTTtataa 10459880

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaa 5321
 ||||||||||||||||||
Sbjct: 10716192 attaatttttaaattaatttgtaaaa 10716216

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 2005 tttatttctcatgttggtctcttgaccgccaacattct 2041
 ||||| || |||||||||||||| |||||||||
Sbjct: 12286102 tttatttctctgttggtctcttgaccaccaacattct 12286066

Score = 50.1 bits (25), Expect = 0.007
Identities = 41/45 (91%), Gaps = 1/45 (2%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaaatatatTTttgaaaaaaaaattataaaaaaaat 5352
 |||||||||||||||||| || ||||||||| |||||||||
Sbjct: 15452871 attaatttgtaaaaatatatTTt-taaaaaaaaattataaaaaaaat 15452828

Score = 50.1 bits (25), Expect = 0.007
Identities = 178/229 (77%)
Strand = Plus / Plus

Query: 5316 gtaaaatatatTTTTGAAAAAAAAA 5340
 |||||
Sbjct: 38390906 gtaaaatatatTTTTGAAAAAAAAA 38390882

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 41199528 gccttatcccactaggtgaggctcggctatatgaatca 41199564

Score = 50.1 bits (25), Expect = 0.007
Identities = 61/73 (83%)
Strand = Plus / Minus

Query: 5024 taaattatTTTatgaataaataaaaggTTTTattcttaaatttgcttgagccctctcaag
5083
 |||||
Sbjct: 43990483 taaattatTTTatgagtaaataaaatatctcattcttaaatttatttttagacctctcaaa
43990424

Query: 5084 tccttgagccgcc 5096
 || |
Sbjct: 43990423 tccttagagccgcc 43990411

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 5548 TTTTTTTTAAAAAAAAAAAAACAAG 5572
 |||||
Sbjct: 45315032 TTTTTTTTAAAAAAAAAAAAACAAG 45315008

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Minus

Query: 6425 ttgaaatcctttgtatTTTTattttatttgattatta 6461

|||||
Sbjct: 46287570 ttgaaatcctttgtattttcatattacttgattatta 46287534

Score = 48.1 bits (24), Expect = 0.026
Identities = 67/80 (83%), Gaps = 1/80 (1%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221

|||||
Sbjct: 12448676 taaatatacattacaaattttactgttatatata-acacattagttattttttaataataa
12448618

Query: 5222 ttgatgtattagttcagttg 5241

|||||
Sbjct: 12448617 ttgacatattagtttagttg 12448598

Score = 48.1 bits (24), Expect = 0.026
Identities = 69/84 (82%)
Strand = Plus / Minus

Query: 5166 tatacattagaaattttagtggttatatttagtgaaattaattattttataacataattga
5225

|||||
Sbjct: 15399875 tatatattagaaattttaatatattatacatagcggcattaactatatttttaacataattgg
15399816

Query: 5226 tgtattagttcagttgggtagagc 5249

|||||
Sbjct: 15399815 cctattagctcagttgggtagagc 15399792

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaa 5148

|||||
Sbjct: 15690133 aaaattaattggtttcaaaaatttattatgtaaa 15690164

Score = 48.1 bits (24), Expect = 0.026

Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaa 5148
 |||||
Sbjct: 15739137 aaaattaattggtataaaaatttattatgtaaa 15739168

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatg 1677
 |||||
Sbjct: 18232596 gccttatcccaataggtgggggttgctacatg 18232565

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 1647 ccttatcccactaggtggggtcggctacatggatca 1682
 |||||
Sbjct: 20813617 ccttatcccactagatgaggtcgactacatggatca 20813652

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgg 1670
 |||||
Sbjct: 22518115 aacgccttatcccactaggtgggatcgg 22518088

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Plus

Query: 7254 agattttggtgttttcttgagtaccaaattaattaactcag 7293
 |||||
Sbjct: 24249922 agatttcgtattttcttgactaccaaattaattgactcag 24249961

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatattttt 5330
 ||||| ||||| || ||||| |||||
Sbjct: 37207225 tcattaatttttaattatttggtaaaatatatattttt 37207190

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 5014 ataatttttaataaattattttatgaata 5041
 ||||| ||||| ||||| |||||
Sbjct: 41114858 ataatttttaataaattattttataaata 41114831

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 6431 tcctttgtatttttattttatttgattattataata 6466
 ||||| ||||| ||||| ||||| |||||
Sbjct: 46122526 tcctttatattttcattttatttgattattaaaata 46122561

Score = 46.1 bits (23), Expect = 0.10
Identities = 38/43 (88%)
Strand = Plus / Minus

Query: 1198 catacctttctcggccttttggtctaagatcaagtgtagtatct 1240
 ||||| ||||| ||||| || ||||| |||||
Sbjct: 1829162 catacctttctcagcctttgggctaataattaagtgtattatct 1829120

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatattttt 5330
 ||||| ||||| ||||| |||||
Sbjct: 3842024 cattaatttttaaattaatttcataaaatatattttttt 3841990

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)

Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattat 5143
 |||||
Sbjct: 6524113 aaaattaattgtataaaaatttattat 6524139

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaattt 5151
 |||||
Sbjct: 6699848 aaaattaatttttataaaaatttattatgttaaattt 6699814

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 1228 aagtgtagtatctgttcttatcagtttaatatctg 1262
 |||||
Sbjct: 10379060 aagtgtaggacctgttcttatcagttcaatatctg 10379026

Score = 46.1 bits (23), Expect = 0.10
Identities = 38/43 (88%)
Strand = Plus / Plus

Query: 6043 ttttttatccaaataataaaaaaaaaaattaattatttacccaa 6085
 |||||
Sbjct: 16842816 ttttttactcaaataataaaaaataaattaattatgtatccaa 16842858

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggg 1665
 |||||
Sbjct: 17192991 aacgccttatcccactaggtggg 17193013

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 5311 aatttgtaaaatatatattttgaaaaaaaaat 5341
|||||||
Sbjct: 18633431 aatttgtaaaatatatattttagaagaaaaaat 18633461

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggctcggctacatggatca 1682
|||||||
Sbjct: 22865824 cttatcccactaggtgaggtcggctacatggatca 22865790

Score = 46.1 bits (23), Expect = 0.10
Identities = 95/119 (79%)
Strand = Plus / Minus

Query: 7042 gttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtg
7101
|||||||
Sbjct: 35140144 gttaattgtctcctacacttagaattgtgcatcacattgatcgaacttgagaacatcgtg
35140085

Query: 7102 agagtttgccctttttctgtatgtctttcatagccttggttaataactttgtataaaactt
7160
|||||||
Sbjct: 35140084 agagttggcatttctttgtgtgtcttccatggcctcatttggtatattgtataaaactt
35140026

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 6490 gaaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 36455160 gaaattaaaaaatatatatttaa 36455138

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 38230485 aactttttttttaaaaaaaaaaaaaa 38230507

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 7397 acaaataattttttattataaaaacaaaca 7423
 |||||
Sbjct: 38361979 acaaataattttttattataaaaaccaaca 38362005

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 39898012 actttttttttaaaaaaaaaaaaaa 39897990

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 3895 aaatgattttttttaaatgtaaaaaatt 3921
 |||||
Sbjct: 43814433 aaatgattttttttaactgtaaaaaatt 43814459

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5309 ttaatttgtaaaatatatattttt 5330
 |||||
Sbjct: 1771134 ttaatttgtaaaatatatattttt 1771155

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 2526286 ctttttttttaaaaaaaaaaaaaa 2526307

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa 4787
||||||| ||||| |||||
Sbjct: 6001727 taactgttaatttttttattggtaccgtaa 6001756

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5301 attttaaattaatttgtaaaatatat 5326
||||||| |||||
Sbjct: 7338529 attttaaattaatttgtaaaacatat 7338554

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
||||||| |||||
Sbjct: 8219879 aaattaaaaaatatatatttaa 8219900

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Minus

Query: 1646 gccttatccactaggtggggctcggctacatggatcaa 1683
 ||||| ||| |||| ||| ||||| ||||| |||||
Sbjct: 8456890 gccttatctcaccaggtgaggttggtacatggatcaa 8456853

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9037711 ctttttttttaaaaaaaaaaaaaa 9037732

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 10088038 ctttttttttaaaaaaaaaaaaaa 10088059

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6542 aaattacaaaatagatatgaaa 6563
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 14192956 aaattacaaaatagatatgaaa 14192935

Score = 44.1 bits (22), Expect = 0.41
Identities = 40/46 (86%)
Strand = Plus / Plus

Query: 5202 ttaattatttttataacataattgatgtattagttcagttggttaga 5247
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16097279 ttaattattttttaacataattggtctattaatttagctggttaga 16097324

Score = 44.1 bits (22), Expect = 0.41
Identities = 49/58 (84%)

Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatTTTtagtgTTatatttagtgaaattaattattttataacat
5219
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16152776 taaatatacattaaaaatTTTattattatatatatcgatgTTaattattttttaacat
16152719

Score = 44.1 bits (22), Expect = 0.41
Identities = 37/42 (88%)
Strand = Plus / Minus

Query: 1641 caaacgccttatccactaggtggggTcggtacatggatca 1682
 |||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 16559206 caaatgccttatccaattaggtgaggtcggttacatggatca 16559165

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 5297 attaatTTTaaattaatttGtaaaatatattttt 5330
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 17317972 attaatTTTaaattatttcataaaatatattttt 17318005

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 6369 atgttgTTaattcTTaatttcttatg 6394
 |||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18313462 atgtttTTaattcTTaatttcttatg 18313487

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 1648 cttatccactaggtggggTcggtca 1673
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 19494805 cttatccactaggtgaggtcggtca 19494830

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaa 5321
 |||||
Sbjct: 36353176 cattaatttttaaattaatttagtaaaa 36353151

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 6259 aattgcttttttttttgtttgttttaaaa 6288
 |||||
Sbjct: 38066797 aattgctttttttttttttttttttaaaa 38066826

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 5296 cattaatttttaaattaatttgtaaaatatatattt 5329
 |||||
Sbjct: 41431565 cattaatttttaaattatttcgtaaaacatatattt 41431598

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Plus

Query: 5742 aaaacatcaaatttgctaaaagatccttaaactttaat 5779
 |||||
Sbjct: 43160178 aaaatatcaaattttacaaaaagatccttaagctttaat 43160215

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 1845 gtcttctctctacatgcccaaaccacctaa 1874
 |||||
Sbjct: 43874999 gtcttctcaccacatgcccaaaccacctaa 43874970

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 97925 tttttttttaaaaaaaaaaaaaa 97945

Score = 42.1 bits (21), Expect = 1.6
Identities = 36/41 (87%)
Strand = Plus / Plus

Query: 1640 acaaacgccttatcccactaggtggggctcggtacatggat 1680
|||||
Sbjct: 1216995 acaaaagccttatcccactatgtgagatcagctacatggat 1217035

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5032 tttatgaataaataaaaagggttttat 5056
|||||
Sbjct: 1329906 tttattaataaataaaaagggttttat 1329930

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 2581 aaataatattttttttctttctaaa 2605
|||||
Sbjct: 1878627 aaatattattttttttctttctaaa 1878603

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 2229997 ttttttttaaaaaaaaaaaaaaac 2230017

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 7397 acaaataatttttattataaaa 7417
 |||||
Sbjct: 4741564 acaaataatttttattataaaa 4741544

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 3892 taaaaatgattttttttaaatgtaa 3916
 |||||
Sbjct: 5026337 taaaaatgattttttttaaatgtaa 5026313

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 5954118 ttttttttaaaaaaaaaaaaaaac 5954138

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 5954977 ttttttttaaaaaaaaaaaaaaa 5954957

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)

Strand = Plus / Minus

```
Query: 6438      tttttttttttttttttgattattat 6462
              |||||
Sbjct: 6744287 ttttttttttttctttgattattat 6744263
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Plus

```
Query: 1646      gccttatcccactaggtggggtcggctacatggatca 1682
              |||||
Sbjct: 8006050 gccttatcccactaggtgagatgagctacatggatca 8006086
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
              |||||
Sbjct: 8967870 tttttttttaaaaaaaaaaaaaa 8967890
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 2811      ttcatataaaatggagattcttatg 2835
              |||||
Sbjct: 9446848 ttcatataaaatgcagattcttatg 9446824
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 5015      taattttaataaattattttatgaa 5039
              |||||
Sbjct: 9756647 taattttcataaattattttatgaa 9756623
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 10699461 ctttttttttaaaaaaaaaaaaaa 10699481

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 3895 aaatgatttttttttaaatgtaaaaatttc 3923
|||||
Sbjct: 11219172 aaatgatttttttttatatgtaaaaatttc 11219144

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 5302 ttttaaattaatttgtaaaatatatTTTT 5330
|||||
Sbjct: 12079032 ttttaaattgatttataaaatatatTTTT 12079004

Score = 42.1 bits (21), Expect = 1.6
Identities = 42/49 (85%)
Strand = Plus / Minus

Query: 7318 catgCGagagTccacttttcttgTggaatcttcctaagctaattaattg 7366
|||||
Sbjct: 12243103 catgcaagagTccacttgTttcgtggaatcttactgagccaattaattg 12243055

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtgggggtc 1668
|||||
Sbjct: 12524936 acaaaagccttatcccactaggtgaggtc 12524908

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 12553250 tttttttttaaaaaaaaaaaaaa 12553270

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 12985514 tttttttttaaaaaaaaaaaaaa 12985534

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5326 tttttgaaaaaaaaattataaaaaa 5350
 |||||
Sbjct: 13092893 tttttaaaaaaaaaattataaaaaa 13092917

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 13403916 tttttttttaaaaaaaaaaaaaa 13403896

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5551 ttttttaaaaaaaaaaaaaaaca 5571
 ||||||||||||||||||||
Sbjct: 13616802 ttttttaaaaaaaaaaaaaaaca 13616822

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 6043 ttttttatccaaataataaaaaaaaaattaattattta 6079
 |||||||||||||| ||| ||| ||| ||||||||
Sbjct: 14176661 ttttttatccaaaaatataaataaataaattattta 14176625

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5331 gaaaaaaaaattataaaaaaatgaa 5355
 |||||||| ||||||||||||||||
Sbjct: 14461238 gaaaaaaatattataaaaaaatgaa 14461214

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 4785 taataataattaataagtaataatt 4809
 |||||||||||||| ||||||||
Sbjct: 14785880 taataataattaataattaataatt 14785904

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6264 cttttttttttgttttgtttt 6284
 ||||||||||||||||||||
Sbjct: 14800048 cttttttttttgttttgtttt 14800068

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)

Strand = Plus / Minus

```
Query: 5302      ttttaaattaatttgtaaaatatatatttt 5330
                ||||| ||||| ||||| |||||
Sbjct: 15392397 ttttaaataatttgtaaaacatatatatttt 15392369
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                ||||| ||||| ||||| |||||
Sbjct: 15819748 ttttttttaaaaaaaaaaaaaa 15819768
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5545      aacttttttttaaaaaaaaaaaaa 5565
                ||||| ||||| ||||| |||||
Sbjct: 15826871 aacttttttttaaaaaaaaaaaaa 15826891
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 6491      aaattaaaaaatatatatttta 6511
                ||||| ||||| ||||| |||||
Sbjct: 16192432 aaattaaaaaatatatatttta 16192452
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 6489      tgaaattaaaaaatatatatt 6509
                ||||| ||||| ||||| |||||
Sbjct: 16564049 tgaaattaaaaaatatatatt 16564029
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 17570952 ctttttttttaaaaaaaaaaaaaa 17570972

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6267 ttttttttgttttgttttaaa 6287
|||||
Sbjct: 20971004 ttttttttgttttgttttaaa 20971024

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5326 tttttgaaaaaaaaaattataaaaaa 5350
|||||
Sbjct: 21828177 ttttttaaaaaaaaaaattataaaaaa 21828153

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaattaat 6073
|||||
Sbjct: 22138093 aaataataaaaaaaaaattaat 22138113

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6440 tttttattttatttgattattataa 6464
|||||
Sbjct: 22340338 tttttattttatttgattattataa 22340362

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4875 aaaagtttttcttttattttt 4895
 |||||
Sbjct: 23021698 aaaagtttttcttttattttt 23021718

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattag 5233
 |||| ||||| ||||| |||||
Sbjct: 23068957 attatttattttataacgtaattgatttattag 23068989

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattta 6511
 |||||
Sbjct: 23822898 aaattaaaaaatatatattta 23822918

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 24277700 ttttttttaaaaaaaaaaaaaa 24277720

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6267 ttttttttgttttgttttaa 6287
 |||||||
Sbjct: 24918493 ttttttttgttttgttttaa 24918513

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5334 aaaaaaattataaaaaaatga 5354
 |||||||
Sbjct: 26202825 aaaaaaattataaaaaaatga 26202805

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 1647 cttatcccactaggtggggtcggctacatgga 1679
 ||||||| ||| ||| |||||
Sbjct: 29149461 cttatcccacttggtgaggtcagctacatgga 29149493

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 30026917 cttttttttaaaaaaaaaaaaa 30026897

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 32337656 tttttttttaaaaaaaaaaaaa 32337636

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaattaat 6073
 |||||
Sbjct: 33772710 aaataataaaaaaaaaattaat 33772730

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 33977735 ttttttttaaaaaaaaaaaaaa 33977755

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5558 aaaaaaaaaaacaagtaataa 5578
 |||||
Sbjct: 34154030 aaaaaaaaaaacaagtaataa 34154050

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5299 taatttttaaatatttgtaaaata 5323
 |||||
Sbjct: 34669578 taatttttaaatatgtaaaata 34669602

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 4884 tcttttatttttattttgttc 4904
 |||||
Sbjct: 35042964 tcttttatttttattttgttc 35042944

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaaattaattatttaccctaaa 6085
||||||| ||| ||||| |||||||||
Sbjct: 35394171 aaataatacaataaatttattatttaccctaaa 35394203

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 2576 ttgtgaaataatattttttttcttt 2600
|||| | ||||||| |||||||
Sbjct: 35778299 ttgtgaaataatattttttttcttt 35778323

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
||||||| ||||||| |||||||
Sbjct: 38066830 ttttttttaaaaaaaaaaaaaa 38066810

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
||||||| ||||||| |||||||
Sbjct: 38066815 ttttttttaaaaaaaaaaaaaa 38066835

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 6488 ttgaaattaaaaaatatatatttaa 6512
||||||| ||||||| |||||
Sbjct: 39261098 ttgaaattaaaaaatatataattaa 39261074

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5544 gaactttttttttaaaaaaaaaa 5564
 |||||
Sbjct: 39763774 gaactttttttttaaaaaaaaaa 39763794

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 5257 taataatgtgaaagtcaaaagttcaattc 5285
 |||||
Sbjct: 40885467 taataatgtgaaagtcataagttcgattc 40885439

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaat 5149
 |||||
Sbjct: 41431039 aaaattaattggttatgaaatttattatgtaaat 41431007

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6429 aatcctttgtatttttattttattt 6453
 |||||
Sbjct: 41467172 aatcctttgaatttttattttattt 41467196

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttga 5332
 ||||| ||||| ||| ||||| ||
Sbjct: 42057990 cattaattttaatctaatttgaaaaacatatatttttga 42057954

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| ||
Sbjct: 42505588 tttttttttaaaaaaaaaaaaaa 42505608

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||| ||||| ||||| ||
Sbjct: 43040335 tttttttttaaaaaaaaaaaaaa 43040355

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 5201 attaattatttttataacataattgatgtattag 5233
 ||||| ||||| || |||||
Sbjct: 44449437 attaattattttttaacataattaatttattag 44449469

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaaaaaac 5569
 ||||| ||||| ||||| ||
Sbjct: 44584880 aactttttttttaaaaaaaaaaaaaaac 44584904

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 44890188 tttttttttaaaaaaaaaaaaaa 44890168
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 7196      ctttggttgaacaatgcattacacc 7220
                |||| |||||
Sbjct: 46656790 ctttggttgaacaatgcattacacc 46656766
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 1646      gccttatcccactaggtggggtcg 1669
                |||||
Sbjct: 228692   gccttatcccactaggtgaggtcg 228669
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

```
Query: 5318      aaaatatatttttgaaaaaaaaattata 5345
                |||| |||||
Sbjct: 1024172 aaaaaatatatttttgaaaaataattata 1024145
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6043      ttttttatccaaataataaaa 6062
                |||||
Sbjct: 1248280 ttttttatccaaataataaaa 1248299
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 1680743 tttttttttaaaaaaaaaaaaaa 1680724

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6580 aaaatatatttaaatttgaaat 6599
 ||||||||||||||||||
Sbjct: 2501369 aaaatatatttaaatttgaaat 2501350

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 2559138 ttttttttttgttttgtttt 2559119

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattt 6510
 ||||||||||||||||||
Sbjct: 2671156 aaattaaaaaatatatattt 2671175

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2586 atattttttttcttttctaaa 2605
 ||||||||||||||||||
Sbjct: 2877851 atattttttttcttttctaaa 2877870

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||
Sbjct: 3146618 aaaaaaaaaattataaaaaaa 3146599

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 3353115 ttttttttaaaaaaaaaaaaaa 3353096

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 3567384 ttttttttaaaaaaaaaaaaaa 3567403

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5556 aaaaaaaaaaaaaacaagtaa 5575
 ||||||||||||||||||
Sbjct: 3759886 aaaaaaaaaaaaaacaagtaa 3759905

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggt 1662
 |||||
Sbjct: 3851842 aacgccttatcccactaggt 3851861

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 3858266 ttttttttaaaaaaaaaaaaa 3858285

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 4208470 acttttttttataaaaaaaaaaaaaac 4208447

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4875 aaaagtttttcttttatttt 4894
 |||||
Sbjct: 4336977 aaaagtttttcttttatttt 4336996

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5566
 |||||
Sbjct: 4729919 ctttttttttaaaaaaaaaaaaa 4729938

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaa 5566
               ||||||||||||||||
Sbjct: 5130412 ctttttttttaaaaaaaaaa 5130393
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5327      ttttgaaaaaaaaaattataa 5346
               ||||||||||||||||
Sbjct: 5269899 ttttgaaaaaaaaaattataa 5269880
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6298      tttttatttttttttgttatt 6317
               ||||||||||||||||
Sbjct: 5952454 tttttatttttttttgttatt 5952473
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

```
Query: 5547      ctttttttttaaaaaaaaaaaaaacaagtaataaaaaa 5582
               ||||||||| ||||| ||| ||||||||||||
Sbjct: 6020268 ctttttttttacaaaaataaataaagtaataaaaaa 6020233
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

```
Query: 5116      aaaaattaattgttacaaaatttattatctaaattt 5151
               ||||||||| || ||||||||| || |||||||
Sbjct: 6116455 aaaaattaattgtcataaaatttattcatgtaaattt 6116420
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6030 gaaaatgagagtttttttta 6049
|||||||
Sbjct: 6135714 gaaaatgagagtttttttta 6135733

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5564
|||||||
Sbjct: 6248085 aacttttttttaaaaaaaaaa 6248104

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||||
Sbjct: 6278058 ctttttttttaaaaaaaaaa 6278039

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggtcggctacatggat 1680
||||||| || ||||
Sbjct: 6303283 ttatcccactagatgaggtcagctacatggat 6303252

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5552 ttttaaaaaaaaaaaaaaaca 5571
|||||||
Sbjct: 6455240 ttttaaaaaaaaaaaaaaaca 6455221

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 6595652 tttttttttaaaaaaaaaaaaaa 6595633

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6398 attttatgttttatcattttttaa 6421
 |||||||||||||| ||||||||
Sbjct: 7125198 attttatgttttataattttttaa 7125221

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5012 caataattttaataaattat 5031
 ||||||||||||||||||
Sbjct: 7131896 caataattttaataaattat 7131915

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 7162048 tttttttttaaaaaaaaaaaaaa 7162067

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 6042 tttttttatccaaataataaaaaaaaaat 6069
 ||||| ||| |||||
Sbjct: 7377534 tttttttattcaaaaaataaaaaaaaaat 7377507

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 7508470 ttttttttaaaaaaaaaaaaaa 7508451

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 1497 tagaaagttatcactgtaaa 1516
 |||||
Sbjct: 8113707 tagaaagttatcactgtaaa 8113688

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 4787 ataataattaataagtaataattttttatcaa 4818
 ||||| ||||| ||| |||
Sbjct: 8353290 ataataattaataattaataattcctttttcaa 8353321

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 8416238 ttttttttaaaaaaaaaaaaaa 8416219

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 4788      taataattaataagtaataa 4807
               ||||||||||||||||
Sbjct: 8659418 taataattaataagtaataa 8659437
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 4788      taataattaataagtaataa 4807
               ||||||||||||||||
Sbjct: 8659510 taataattaataagtaataa 8659529
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5546      actttttttttaaaaaaaaaa 5565
               ||||||||||||||||
Sbjct: 8983834 actttttttttaaaaaaaaaa 8983853
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5328      tttgaaaaaaaaattataaa 5347
               ||||||||||||||||
Sbjct: 9778725 tttgaaaaaaaaattataaa 9778744
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5547      cttttttttttaaaaaaaaaa 5566
               ||||||||||||||||
Sbjct: 10169423 cttttttttttaaaaaaaaaa 10169404
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 1199 atacctttctcggccttttggttaagatcaagtgtgta 1234
 ||||| ||| ||||| |||||
Sbjct: 10379095 atacctttcttggcctttttgattaagatcaagtgtgta 10379060

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 10430114 tttttttttaaaaaaaaaaaaaa 10430133

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 10721626 tttttttttaaaaaaaaaaaaaa 10721645

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 11130285 tttttttttaaaaaaaaaaaaaa 11130304

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5326 tttttgaaaaaaaaattataaaaaa 5349
 ||||| |||||
Sbjct: 11168419 tttttgaaaaaaaaactataaaaaa 11168442

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaacaa 5571
 |||||||||||||||||| |||||
Sbjct: 11591611 tttttttttaaaaaaaaaataacaa 11591588

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5329 ttgaaaaaaaaattataaaa 5348
 ||||||||||||||||||
Sbjct: 11669675 ttgaaaaaaaaattataaaa 11669694

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6265 ttttttttttgttttgtttt 6284
 ||||||||||||||||||
Sbjct: 12046806 ttttttttttgttttgtttt 12046825

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 |||||||||||||| ||||| |||||| |||||
Sbjct: 12075134 aaaattaattgttataaaaatgtattatgtaaa 12075165

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 12459071 tttttttttaaaaaaaaaaaaaa 12459090

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 13640513 tttttttttaaaaaaaaaaaaaa 13640494

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 14200625 tttttttttaaaaaaaaaaaaaa 14200606

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4438 ttcaattttttttttttgtga 4457
 ||||||||||||||||||
Sbjct: 15543993 ttcaattttttttttttgtga 15544012

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 ||||||||| ||| ||||||||||||| |||
Sbjct: 15572715 aaaattaattattaaaaaatttattatgtaaa 15572746

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5334      aaaaaaattataaaaaaatg 5353
                ||||||||||||||||
Sbjct: 16000285 aaaaaaattataaaaaaatg 16000266
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5545      aacttttttttaaaaaaaaaa 5564
                ||||||||||||||||
Sbjct: 16086305 aacttttttttaaaaaaaaaa 16086324
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 6059      taaaaaaaaaattaattatttacc 6082
                |||||||||||| ||||||||||||
Sbjct: 16305750 taaaaaaaaaagtaattatttacc 16305773
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 4881      ttttcttttatttttatttt 4900
                ||||||||||||||||
Sbjct: 16652858 ttttcttttatttttatttt 16652839
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 6285      aaaattgtttgtatttttatttt 6308
                |||||||||||| ||||||||||||
Sbjct: 17007053 aaaattgttttatttttatttt 17007076
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5018 ttttaataaattattttatgaata 5041
 |||||
Sbjct: 17095908 ttttaataaattattttataaata 17095931

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 17496499 tttttttttaaaaaaaaaaaaaa 17496480

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 18406933 tttttttttaaaaaaaaaaaaaa 18406914

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 4870 aatccaaaagtttttcttttatttttat 4897
 |||| ||| |||||
Sbjct: 19751658 aatcaaaatgtttttcttttatttttat 19751631

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 1651 atcccactaggtggggctcggtacatggatca 1682
 ||||| ||| | |||||
Sbjct: 20070283 atcccactaggtgaggttgactacatggatca 20070252

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5328 tttgaaaaaaaaattataaaaaaa 5351
 ||||| |||||
Sbjct: 20304339 tttgaaaataaaattataaaaaaa 20304316

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 20631763 ttttttttaaaaaaaaaaaaa 20631744

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaa 5564
 |||||
Sbjct: 20858719 aacttttttttaaaaaaaaaaa 20858700

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5328 tttgaaaaaaaaattataaaaaaatgaa 5355
 ||| ||||| |||||
Sbjct: 20868640 tttggaaaaaaaaaatataaaaaaatgaa 20868613

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 23110365 tttttttttaaaaaaaaaaaaaa 23110384

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaaattaa 6072
 |||||||
Sbjct: 23178510 aaataataaaaaaaaaaattaa 23178529

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 23187440 aactttttttttaaaaaaataaaaaa 23187463

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 23241838 tttttttttaaaaaaaaaaaaaa 23241819

Score = 40.1 bits (20), Expect = 6.4
Identities = 41/48 (85%)
Strand = Plus / Plus

Query: 6682 gacacatggaacatcatttttggtttacctgattcttggatatccattt 6729
 ||||||| ||||| ||||| | || ||| |||||
Sbjct: 24206556 gacacatgcaacatcactttggttgatctagttctcggatatccattt 24206603

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaa 5567
                |||||||||||||||||||
Sbjct: 24740613 tttttttttaaaaaaaaaaaaa 24740594
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5742      aaaacatcaaatttgctaaa 5761
                |||||||||||||||||||
Sbjct: 27417366 aaaacatcaaatttgctaaa 27417347
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

```
Query: 1656      actaggtggggtcggctacatggatcaa 1683
                ||||||||||||||| | |||||||||||||||
Sbjct: 29014156 actaggtggggtcagatacatggatcaa 29014129
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5536      ttgttattgaacttttttttt 5555
                |||||||||||||||||||
Sbjct: 30233164 ttgttattgaacttttttttt 30233145
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5308      attaatttgtaaaatatatt 5327
                |||||||||||||||||||
Sbjct: 30850868 attaatttgtaaaatatatt 30850887
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 1288 tattaaatttattttttgaa 1307
 |||||
Sbjct: 31701759 tattaaatttattttttgaa 31701778

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

Query: 5557 aaaaaaaaaaacaagtaataaaaaaact 5584
 |||||
Sbjct: 31814548 aaaaaaaaaaacaagaaagaaaaaact 31814521

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5328 ttgaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 32939305 ttgaaaaaaaaagttataaaaaaa 32939328

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 33382312 tttttttaaaaaaaaaaaaaa 33382293

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 33998910 tttttttaaaaaaaaaaaaaa 33998929

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 3894 aaaatgattttttttaaatgtaaa 3917
 ||||||| |||||||
Sbjct: 34967394 aaaatgatgtttttttaaatgtaaa 34967417

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6754 gacaacctttagaatttctt 6773
 |||||||
Sbjct: 35140438 gacaacctttagaatttctt 35140419

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6060 aaaaaaaaattaattattta 6079
 |||||||
Sbjct: 35293826 aaaaaaaaaattaattattta 35293807

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6059 taaaaaaaaaattaattattt 6078
 |||||||
Sbjct: 36242406 taaaaaaaaaattaattattt 36242387

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaa 5564
 |||||
Sbjct: 38659975 aactttttttttaaaaaaaaaa 38659956

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||
Sbjct: 38740076 aaattaaaaaatatatattt 38740057

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||
Sbjct: 38887038 aaattaaaaaatatatattt 38887019

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 39018375 tttttttttaaaaaaaaaaaaa 39018394

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4794 ttaataagtaataattttttt 4813
 |||||
Sbjct: 39284545 ttaataagtaataattttttt 39284564

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5571
                ||||| ||||| ||||| |||||
Sbjct: 39442492 tttttttttaaaaaaaaaaaaaa 39442469
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5549      tttttttttaaaaaaaaaaaaaa 5568
                ||||| ||||| ||||| |||||
Sbjct: 39492145 tttttttttaaaaaaaaaaaaaa 39492164
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6053      aaataataaaaaaaaaaattaa 6072
                ||||| ||||| ||||| |||||
Sbjct: 40407322 aaataataaaaaaaaaaattaa 40407303
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                ||||| ||||| ||||| |||||
Sbjct: 40781044 tttttttttaaaaaaaaaaaaaa 40781063
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

```
Query: 1651      atcccactaggtggggtcggctacatggatca 1682
                ||||| ||||| ||||| ||||| |||||
Sbjct: 40892436 atcccagtaggtgaggtcgactacatggatca 40892467
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 40963598 tttttttttaaaaaaaaaaaaaa 40963617

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 41553399 tttttttttaaaaaaaaaaaaaa 41553380

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 41707205 tttttttttaaaaaaaaaaaaaa 41707224

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3892 taaaaatgatttttttttaa 3911
 ||||||||||||||||||
Sbjct: 42748637 taaaaatgatttttttttaa 42748656

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 42839242 tttttttttaaaaaaaaaaaaaa 42839223

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 1640 acaaacgccttatcccactaggtg 1663
 ||||| ||||||||||||||||
Sbjct: 42878151 acaaaagccttatcccactaggtg 42878174

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 1640 acaaacgccttatcccactaggtg 1663
 ||||| ||||||||||||||||
Sbjct: 42882105 acaaaagccttatcccactaggtg 42882128

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6611 aattttaaaatacaaacat 6630
 ||||||||||||||||
Sbjct: 43912031 aattttaaaatacaaacat 43912050

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaa 5351
 ||||||||||||||||
Sbjct: 44051447 aaaaaaaaaattataaaaaa 44051466

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2577 ttgtaaataatatatatttttttt 2596
 ||||||||||||||||||||
Sbjct: 44099558 ttgtaaataatatatatttttttt 44099539

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6075 atttacc caaaaaaattatttt 6094
 ||||||||||||||||||||
Sbjct: 45078228 atttacc caaaaaaattatttt 45078247

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttatttt 4900
 ||||||||||||||||||||
Sbjct: 45456063 ttttcttttatttttatttt 45456044

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5317 taaaatatatttttgaaaaaaaaa 5340
 ||||| ||||||||||||||||||||
Sbjct: 45645612 taaaacatatatttttgaaaaaaaaa 45645589

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6056 taataaaaaaaaaattaattattta 6079
 |||||||||||||||||||| ||||
Sbjct: 45987011 taataaaaaaaaaattaattcttta 45986988

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5567
                |||||||||||||||||||
Sbjct: 46063908 tttttttttaaaaaaaaaaaaaa 46063927
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 6484      ttaattgaaattaaaaaatatata 6507
                ||||||| |||||||||||||||
Sbjct: 46099264 ttaattgatattaaaaaatatata 46099241
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaaaca 5571
                ||||| |||||||||||||||
Sbjct: 46616723 tttttattaaaaaaaaaaaaaaca 46616746
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6265      ttttttttttgttttgtttt 6284
                |||||||||||||||
Sbjct: 46855038 ttttttttttgttttgtttt 46855057
```

>[gb|CM000840.1](#)| Glycine max chromosome 7, whole genome shotgun sequence
Length = 44683157

Score = 1592 bits (803), Expect = 0.0
Identities = 812/815 (99%)
Strand = Plus / Minus

```
Query: 1643      aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
                ||||||||||||||| |||||||||||||||
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Sbjct: 34624184 aacgccttatcccactaggtggggctgactacatggatcaacttccgccataatgttcta
34624125

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 34624124 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
34624065

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 34624064 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
34624005

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 34624004 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
34623945

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 34623944 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
34623885

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 34623884 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
34623825

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 34623824 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
34623765

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

||| |||||
Sbjct: 34623764 cttgccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
34623705

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||

Sbjct: 34623704 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 34623645

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 34623644 tcaatttccccatcatcctgtattacagacccaagatatattaaaccatgtgacttgaggg
 34623585

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 34623584 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 34623525

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 34623524 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 34623465

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 34623464 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 34623405

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 34623404 tctgcaaaaagcatgcatctcggcgctatctcttg 34623370

Score = 1584 bits (799), Expect = 0.0
 Identities = 811/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 8277257 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 8277198

Query: 1703 tcaagtaccataacttctatccaaaccatttaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 8277197 tcaagtaccataacttctatccaaaccatttaatttcgagatcctttttataacctctctt
 8277138

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 8277137 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
8277078

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 8277077 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
8277018

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 8277017 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
8276958

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002

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Sbjct: 8276957 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacaccg
8276898

Query: 2003 actttattctcatgttggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 8276897 actttattctcatgttggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
8276838

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 8276837 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
8276778

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 8276777 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
8276718

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 8276717 tcaatttccccatcatcctgtattacagactcaagatatttaaaccgtgtgacttgaggg
8276658

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 8276657 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
8276598

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 8276597 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
8276538

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 8276537 ctccaagtttccaacctctcattcaattcctccctcgactctccaaggaggactatgtca
8276478

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 8276477 tctgcaaaaagcatgcatctcggcgctatctcttg 8276443

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 28630701 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
28630642

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 28630641 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
28630582

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 28630581 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
28630522

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 28630521 cttctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
28630462

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 28630461 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
28630402

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 28630401 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
28630342

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 28630341 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
28630282

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 28630281 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
28630222

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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|
Sbjct: 28630221 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccg
28630162

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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|
Sbjct: 28630161 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
28630102

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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|
Sbjct: 28630101 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
28630042

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 28630041 cattccatataactccgatttgcttctgcttaggcgaaaacccatgtgtttctagagctcgt
28629982

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 28629981 ctccaagtttccaacctctcattcagctcctccctcgactctccaaggaggactatgtca
28629922

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 28629921 tctgcaaaaagcatgcatctcggcgctatctcttg 28629887

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 44032614 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
44032673

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 44032674 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
44032733

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 44032734 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
44032793

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 44032794 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
44032853

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 44032854 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
44032913

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 44032914 attttatcctgtcgagtcttaccacacatccaccgcaacattctcatctccgctacacct
44032973

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 44032974 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgctcgg
44033033

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 44033034 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
44033093

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 44033094 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
44033153

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 44033154 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
44033213

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 44033214 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
44033273

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 44033274 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
44033333

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 44033334 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
44033393

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 44033394 tctgcaaaaagcatgcatctcggcactatctcttg 44033428

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 44059028 aacgccttattccactaggtggggtcggctacatggatcaacttccgccataatgttcta
44058969

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||||
Sbjct: 44058968 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
44058909

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||||
Sbjct: 44058908 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
44058849

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 44058848 ctcttactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
44058789

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||||
Sbjct: 44058788 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
44058729

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 44058728 attttatcctgtcgagtcttaccacatatccaccgcaacatcctcatctccgctacacct
44058669

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
|||||||

Sbjct: 44058668 actttattctcatgttggctcttgaccgcccacattctgttcggtacaaaatcgctcggt
 44058609

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 44058608 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 44058549

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

|||||
 Sbjct: 44058548 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 44058489

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 44058488 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 44058429

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 44058428 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 44058369

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 44058368 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 44058309

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 44058308 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 44058249

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 44058248 tctgcaaaaagcatgcatctcggcgctatctcttg 44058214

Score = 1578 bits (796), Expect = 0.0
 Identities = 808/812 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 26187443 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
26187384

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 26187383 tcaagtatcatacttctatccaaatcattaagttcgagatcctttttataacctctctt
26187324

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 26187323 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
26187264

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 26187263 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
26187204

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 26187203 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
26187144

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 26187143 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
26187084

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 26187083 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
26187024

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 26187023 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
26186964

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 26186963 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
26186904

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 26186903 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
26186844

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 26186843 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
26186784

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 26186783 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
26186724

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 26186723 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
26186664

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctc 2454

|||||
Sbjct: 26186663 tctgcaaaaagcatgcatctcggcgctatctc 26186632

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 31974058 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
31974117

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 31974118 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
31974177

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 31974178 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
31974237

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 31974238 ctctcactacaaagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
31974297

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 31974298 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
31974357

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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2122

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31974537

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 31974538 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
31974597

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaacggtgtgacttgaggg
2242

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Sbjct: 31974598 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
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2362

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31974777

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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31974837

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 18276810 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
18276869

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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18276929

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 18276990 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
18277049

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
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18277109

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 18277230 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18277289

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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18277349

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 18277350 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
18277409

Query: 2243 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 18277410 ataatatggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
18277469

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18277470 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagaactcgt
18277529

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18277530 ctccaagtttccaacctctcattcaactcctccctcgactttccaaggaggactatgtca
18277589

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 28452808 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
28452749

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 28452748 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
28452689

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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28452629

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 28452628 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
28452569

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 28452568 tccaccatcttctctacaataggcgctactccaaccatctctctaatagcttcgtttcta
28452509

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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28452329

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 28452328 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
28452269

Query: 2183 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 28452268 tcaatttccccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
28452209

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 28452208 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
28452149

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 28452148 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
28452089

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 28452088 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
28452029

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 17168826 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17168885

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 17168886 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
17168945

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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17169005

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 17169006 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
17169065

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
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Sbjct: 17169066 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
17169125

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
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17169185

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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17169245

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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17169305

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 17169306 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
17169365

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 17169366 tcaatttcccatcatcctgtattatagaccaagatatttaaaccgtgtgacttgaggg
17169425

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaatta
2302

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Sbjct: 17169426 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaatta
17169485

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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17169545

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 17169546 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
17169605

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 33741211 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
33741270

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 33741271 tcaggtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
33741330

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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33741390

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctat
1882

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Sbjct: 33741391 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctat
33741450

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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33741510

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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33741570

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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33741630

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 33741631 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
33741690

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 33741691 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccg
33741750

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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33741810

Query: 2243 ataatatgggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

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33741870

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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33741930

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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33741990

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Score = 1560 bits (787), Expect = 0.0
Identities = 808/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 43675115 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
43675174

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 43675175 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
43675234

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
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43675294

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 43675295 ctctcactacagagtctaccggtcttctctttacatgctcaaaccacctaagtctattt
43675354

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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43675414

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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43675474

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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43675534

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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43675594

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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43675654

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 43675655 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
43675714

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 43675715 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
43675774

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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43675834

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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43675894

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 43675895 tctgcaaaaagcatgcatctcggcgctatctcttg 43675929

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Minus

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1702

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Sbjct: 2691281 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
2691222

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 2691221 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
2691162

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 2691161 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
2691102

Query: 1823 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 2691101 ctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
2691042

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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2690982

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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2690922

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2062

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2690862

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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2690802

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 2690801 acccccgatgcttttctccatttcatccatcctacttgaatgcatgattcacatccct
2690742

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 2690741 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2690682

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 2690681 ataatatggtctcctatctttcacctctgagttagaaaccctccttcttttgttgaactta
 2690622

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 2690621 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcat
 2690562

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 2690561 ctccaagtttccaacctctcattcaactcctccctcgaatctccaaggaggactatgtca
 2690502

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 2690501 tctgcaaaaagcatgcatctcagcgctatctcttg 2690467

Score = 1544 bits (779), Expect = 0.0
 Identities = 806/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 18174421 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 18174362

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 18174361 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 18174302

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
 1822

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 Sbjct: 18174301 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
 18174242

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

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 Sbjct: 18174241 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 18174182

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 18174181 tccaccatcttctctacaataggcgctacttcaaccctctctctaatagcttcgtttcta
18174122

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 18174121 attttatcctgtcgagtcttaccaaacattcaccgcaacatcctcatctccattacacct
18174062

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 18174061 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
18174002

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 18174001 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18173942

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 18173941 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
18173882

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 18173881 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
18173822

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 18173821 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
18173762

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18173761 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
18173702

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18173701 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18173642

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 18173641 tctgcaaaaagcatgcatctcggcgctatctcttg 18173607

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 18425808 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
18425867

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 18425868 tcaagtaccatacttctatccaaatcattatgttcgagatcctttttataacctctctt
18425927

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 18425928 atagtctttttgggtcttcctctgcctcgaatagtttgtcttctctccatctgggtctact
18425987

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcctattt
1882

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Sbjct: 18425988 ctctcactacatagtcctaccggtcttctctctacatgcccaaaccacctaagtcctattt
18426047

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 18426048 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttctg
18426107

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 18426108 attttatcctgtcgagtccttaccacacatctaccgcaacatcctcatctccgctacacct
18426167

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 18426168 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
18426227

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
2122

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Sbjct: 18426228 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
18426287

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 18426288 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
18426347

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 18426348 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
18426407

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaaactta
2302

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Sbjct: 18426408 ataatatggtcttctattttcacctctgagttagaaaccctccttcttttgttgaaactta
18426467

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18426468 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
18426527

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 18426528 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18426587

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 18426588 tctgcaaaaagcatgcatctcggcgctatctcttg 18426622

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 27660290 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgtttta
27660231

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 27660230 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
27660171

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 27660170 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
27660111

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtcctattt
1882
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Sbjct: 27660110 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtcctattt
27660051

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
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Sbjct: 27660050 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
27659991

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 27659990 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
27659931

Query: 2003 actttattctcatgttgggtctttgaccgcccacatttctgttccgtacaaaatcgccgggt
2062
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Sbjct: 27659930 acttttagtctcatgttgggtctttgaccgcccacatttctgttccgtacaaaatcgccgggt
27659871

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 27659870 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
27659811

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 27659810 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
27659751

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 27659750 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
27659691

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 27659690 ataatatggtctcctattttcacctctgagttagataaccctcctacttttgttgaactta
27659631

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 27659630 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
27659571

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 27659570 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
27659511

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 27659510 tctgcaaaaagcatgcatctcggcgctatctcttg 27659476

Score = 1531 bits (772), Expect = 0.0
Identities = 802/812 (98%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
1705

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Sbjct: 14855800 gccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatca
14855741

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

|||||
Sbjct: 14855740 agtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctcttata
14855681

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825

|||||
Sbjct: 14855680 gtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctactctc
14855621

Query: 1826 ctcaactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
1885

|||||
Sbjct: 14855620 ctcaactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
14855561

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagtctcggttcttaatt
1945

|||||
Sbjct: 14855560 accatcttctctacaataggcgctactccaactctctctctaatagtctcggttcttaatt
14855501

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
2005

|||||
Sbjct: 14855500 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
14855441

Query: 2006 ttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggtctt
2065

||| |||||
Sbjct: 14855440 ttaatctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggtctt
14855381

Query: 2066 accgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
2125

|||||
Sbjct: 14855380 accgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
14855321

Query: 2126 cccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttca
2185

|||||

Sbjct: 14855320 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
14855261

Query: 2186 atttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggata
2245

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Sbjct: 14855260 atttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggata
14855201

Query: 2246 atatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaacttacat
2305

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Sbjct: 14855200 atatggtctcctattttcacctctgagttagataccctcctacttttgttgaacttacat
14855141

Query: 2306 tccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctc
2365

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Sbjct: 14855140 tccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgtctc
14855081

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
2425

||||| ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 14855080 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
14855021

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457

||||| ||||||||||||||||||||||||
Sbjct: 14855020 gcaaaaagcatgcatctcggcgctatctcttg 14854989

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

||||| ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 8098228 aacgccttatcccactaggtgggggtcggctacatggatcaacttctgccataatgttcta
8098287

Query: 1703 tcaagtaccatacttctatccaaaccattaatctcgagatcctttttgataacctctctt
1762

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Sbjct: 8098288 tcaagtaccatacttctatccaaatcattaagttcagagatcctttttgataacctctctt
8098347

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 8098348 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
8098407

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 8098408 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
8098467

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 8098468 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
8098527

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctcgctacacct
2002

|||||
Sbjct: 8098528 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctcgctacacct
8098587

Query: 2003 actttattctcatgttggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 8098588 actttattctcatgttggtcttgatcgccaacattctgttcggtacaaaatcgccggt
8098647

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 8098648 cttaccgcaatcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
8098707

Query: 2123 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 8098708 acccccgatgcttttctccatttcacatcctgcttgaatgcatgattcacatccct
8098767

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 8098768 tcaatttctccatcatcctgtattacagaccaagatatttaaaccatgtgacttgaggg
8098827

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 8098828 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
8098887

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

|||||
Sbjct: 8098888 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgt
8098947

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 8098948 ctccaagtttccaacctctcattcaactcctccctcgactctctaaggaggaggactatgtca
8099007

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 8099008 tctgcaaaaagcatgcatctcggcgctatctcttg 8099042

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 13575570 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
13575629

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 13575630 tcaagtaccataatttctatccaaatcattaagttcgagatccttcttgataacctctctt
13575689

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 13575690 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
13575749

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaaggtctattt
1882

|||||

Sbjct: 13575750 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
13575809

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 13575810 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctt
13575869

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 13575870 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
13575929

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 13575930 actttagtctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
13575989

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 13575990 cttaccgcagtcgataaaaactttccattagcttgatcggtacctttgcatcacataac
13576049

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 13576050 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
13576109

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 13576110 tcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
13576169

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 13576170 ataatatggtctcctattttcacctctgagttagataccctcctacttttggtgaactta
13576229

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 13576230 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
13576289

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 13576290 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
13576349

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 13576350 tctgcaaaaagcatgcatctcggcgctatctcttg 13576384

Score = 1497 bits (755), Expect = 0.0
Identities = 801/815 (98%), Gaps = 1/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 17561323 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
17561264

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 17561263 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
17561204

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 17561203 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
17561144

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

|||||
Sbjct: 17561143 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
17561084

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 17561083 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
17561024

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 17561023 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
17560964

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 17560963 acttttagtctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
17560904

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 17560903 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
17560844

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 17560843 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
17560784

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 17560783 tcaatttctccatcatcctgtattacaga-ccaagatatttaaaccgtgtgacttgaggg
17560725

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 17560724 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
17560665

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 17560664 cattcaatataactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
17560605

Query: 2363 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 17560604 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
17560545

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
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Sbjct: 17560544 tctgcaaaaagcatgcatctcggcgctatctcttg 17560510

Score = 1497 bits (755), Expect = 0.0
Identities = 800/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 19644050 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
19643991

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||| |
Sbjct: 19643990 tcaaataccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
19643931

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 19643930 atagtctttttgagtcttctctgcctcgaattgtttgccttctctccatctgggtctact
19643871

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
|||||
Sbjct: 19643870 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
19643811

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 19643810 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
19643751

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 19643750 attttatcatgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
19643691

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 19643690 acttttagtctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgctcggt
 19643631

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 19643630 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 19643571

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

|||||
 Sbjct: 19643570 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 19643511

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 19643510 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 19643451

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 19643450 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
 19643391

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 19643390 cattccatataactccgatttgcttctgcttaggtgaaagccatgtgtttctagagctcgt
 19643331

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 19643330 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 19643271

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 19643270 tctgcaaaaagcatgcatctcagcgctatctcttg 19643236

Score = 1491 bits (752), Expect = 0.0
 Identities = 801/816 (98%), Gaps = 1/816 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatggttcta
1702

|||||
Sbjct: 13895757 aacgccttatcccattaggtgggggtcggctacatggatcaacttccgccataatggttcta
13895816

Query: 1703 tcaagtaccatacttctatccaaac-cattaatttcgagatcctttttgataacctctct
1761

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Sbjct: 13895817 tcaagtaccatacttctatccaaaatcattaagttcgagatccttcttgataacctctct
13895876

Query: 1762 tatagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctggtctac
1821

|||||
Sbjct: 13895877 tatagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctggtctac
13895936

Query: 1822 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatt
1881

|||||
Sbjct: 13895937 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatt
13895996

Query: 1882 ttccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttggttct
1941

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Sbjct: 13895997 ttccaccatcttctctacagtagggcgctactccaaccctctctctaatagtcttggttct
13896056

Query: 1942 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
2001

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Sbjct: 13896057 aattttatcctgtcgagtcttatcacacatccaccgcaacatcctcatctccgctacacc
13896116

Query: 2002 tactttattctcatgttggtcttgaccgcccacattctgttcggtacaaaatcgccgg
2061

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Sbjct: 13896117 tactttagtctcatgttggtcttgaccgcccacattctgttcggtacaaaatcgccgg
13896176

Query: 2062 tcttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataa
2121

|||||
Sbjct: 13896177 tcttaccgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataa
13896236

Query: 2122 ccccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
2181

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Sbjct: 13896237 ccccccgatacttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
13896296

Query: 2182 ttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2241

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Sbjct: 13896297 ttcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
13896356

Query: 2242 gataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactt
2301

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Sbjct: 13896357 gataatatgggtctcctattttcacctctgagttagataccctcctacttttggtgaactt
13896416

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
2361

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Sbjct: 13896417 acattccatataactccaatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
13896476

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

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Sbjct: 13896477 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
13896536

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 13896537 atctgcaaaaagcatgcatctcggcgctatctcttg 13896572

Score = 1481 bits (747), Expect = 0.0
Identities = 798/815 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 9287495 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
9287436

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 9287435 tcaagtaccatactttctatccaaatcattaagttcgagatcctttttgataacctctctt
9287376

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
1822

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Sbjct: 9287375 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
9287316

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 9287315 ctctcactatagagtctaccgatattctctctacatgcccaaaccacctaagtctattt
9287256

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 9287255 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcatttcta
9287196

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 9287195 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
9287136

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 9287135 actttattctcatgttgggtcttgaccgcccacattctgttccgtacaaaatcgccggt
9287076

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 9287075 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
9287016

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

|||||
Sbjct: 9287015 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcccatcccct
9286956

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 9286955 tcaatttctccatcatcctgtattatagaccaagatatttaaaccgtgtgacttgaggg
9286896

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 9286895 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
9286836

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 9286835 catttcatataactccgatttgcttctgcttaggcgaaagtcagtggtttctagagctcgt
9286776

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 9286775 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggagaactatgtca
9286716

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 9286715 tctgcaaaaagcatgcatctcggtgctatctcttg 9286681

Score = 1473 bits (743), Expect = 0.0
Identities = 797/815 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 17825619 aacgccttatccactaggtggggtcgactacatggatcaacttccgccataatgttcta
17825678

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 17825679 tcaagtatcatacttctatccaaatcattaagtttgagatccttctttataacatctctt
17825738

Query: 1763 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 17825739 atagtctttttgggtcttccctctgcctcgaattgtttgccttctctccatctgggtctact
17825798

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 17825799 ctctcactacagagtctaccggtcttctctctacatgccaaaaccacctaagtctattt
17825858

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 17825859 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
17825918

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 17825919 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
17825978

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 17825979 actttagtctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
17826038

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 17826039 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
17826098

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 17826099 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
17826158

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 17826159 tcaatttctccattatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
17826218

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 17826219 ataatatggtctcctattttccacctctgagttagataccctcctacttttgttgaactta
17826278

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 17826279 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
17826338

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 17826339 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
17826398

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 17826399 tctgcaaatagcatgcatctcggcgctatctcttg 17826433

Score = 1457 bits (735), Expect = 0.0
Identities = 795/815 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 42159583 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
42159642

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 42159643 tcaagtatcatacttctatccaaatcatthaagttcgagatccttcttgataacctctctt
42159702

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 42159703 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
42159762

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

|||||
Sbjct: 42159763 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
42159822

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||

Sbjct: 42159823 tccaccatcttctctacaataggcgctactccaaccctctctttaatagttcagtttcta
42159882

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 42159883 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
42159942

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 42159943 acttttagtctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
42160002

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 42160003 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
42160062

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 42160063 acccccgaatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
42160122

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 42160123 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
42160182

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 42160183 ataatatggtctcctattttcacctctgagttagataaccctcctacttttggtgaactta
42160242

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 42160243 cattccatatactccgatttgcttctgcttaggcgaaaagccatgtgtttctagagctcgt
42160302

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||

Sbjct: 42160303 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
42160362

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||| ||||||||||||||||||||||||||||||||
Sbjct: 42160363 tctgtaaaaagcatgcatctcggcgctatctcttg 42160397

Score = 1457 bits (735), Expect = 0.0
Identities = 744/747 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 43405902 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
43405961

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 43405962 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
43406021

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
||||| ||||||||||||||||||||||||||||||||
Sbjct: 43406022 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
43406081

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
||||| ||||||||||||||||||||||||||||||||
Sbjct: 43406082 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
43406141

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
||||| ||||||||||||||||||||||||||||||||
Sbjct: 43406142 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
43406201

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
||||| ||||||||||||||||||||||||||||||||
Sbjct: 43406202 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
43406261

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062
 ||||||||||||||||||
 Sbjct: 43406262 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
 43406321

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122
 ||||||||||||||||||
 Sbjct: 43406322 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 43406381

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 2182
 ||||||||||||||||||
 Sbjct: 43406382 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
 43406441

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242
 ||||||||||||||||||
 Sbjct: 43406442 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 43406501

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302
 ||||||||||||||||||
 Sbjct: 43406502 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 43406561

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362
 ||||||||||||
 Sbjct: 43406562 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 43406621

Query: 2363 ctccaagtttccaacctctcattcaac 2389
 ||||||||||||||
 Sbjct: 43406622 ctccaagtttccaacctctcattcaac 43406648

Score = 1376 bits (694), Expect = 0.0
 Identities = 700/702 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
Sbjct: 39252497 aacgccttatcccactaggtggggtcggctacatggatcaacttcgcccataatgttcta
39252438

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 39252437 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
39252378

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 39252377 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
39252318

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 39252317 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
39252258

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 39252257 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
39252198

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 39252197 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39252138

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 39252137 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
39252078

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 39252077 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
39252018

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||

Sbjct: 39252017 atccccgatgcttttctccatttcacccatcctgcttgaatgcgatgattcacatccct
39251958

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 39251957 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtaacttgaggg
39251898

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 39251897 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
39251838

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagcca 2344

|||||
Sbjct: 39251837 cattccatatactccgatttgcttctgcttaggcgaaagcca 39251796

Score = 1372 bits (692), Expect = 0.0
Identities = 740/755 (98%), Gaps = 2/755 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 43072999 aacgccttatcccactaggtggggttggctacatggatcaacttccaccataatgttcta
43072940

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 43072939 tcaagtaccatacttctatccaaatcattaagtttgagatccttttttataacctctctt
43072880

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 43072879 atagtctttttgggtcttctctgcctcgaatagtttgcttctctccatctggtctact
43072820

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 43072819 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
43072760

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 43072759 tccaccatcttttctacaataggcgctactccaaccctctctctaatagcttcgtttcta
43072700

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 43072699 attttatcctgtcgaatcttaccacacatccaccgcaacatcctcatctccgctacacct
43072640

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 43072639 actttattctcatggttggtctcttgaccgtccaacattctgttccgtacaaaatcgccggt
43072580

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 43072579 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
43072520

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 43072519 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
43072460

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||
Sbjct: 43072459 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgagag
43072400

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 43072399 ataatatggtctcctattttcac--ctgagttagaaaccctccttcttttgttgaactta
43072342

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 43072341 catttcatataactccgatttgcttcttcttaggcgaaagccatgtgtttctagagctcgt
43072282

Query: 2363 ctccaagttttccaacctctcattcaactcctccct 2397
 ||||||||||||||||||||||||||||||||||
Sbjct: 43072281 ctccaagttttccaacctctcattcaactcctccct 43072247

Score = 1255 bits (633), Expect = 0.0
Identities = 660/669 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||
Sbjct: 3765157 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
3765098

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
1762
 ||||||| ||||||||||||||||||||||||||||||||||
Sbjct: 3765097 tcaagtatcatacttctatccaaaccattaatttcgagatccttttgataacctctctt
3765038

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 3765037 ataatccttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
3764978

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
 ||||||||||||||||||||||||||||||||||
Sbjct: 3764977 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
3764918

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942
 |||||||||||||||||||||||||||||| |||||||||| |||||||||
Sbjct: 3764917 tccaccatcttctctacaataggcgctactccaatcctctctctaatagtttcgtttcta
3764858

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 ||||||||||||||||||||||||||||||||||
Sbjct: 3764857 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
3764798

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttcggtacaaaatcgccggt
2062
 |||||||||||||||||| ||||||||||||||||||||||||||||||||

Sbjct: 3764797 actttattctcatgttggtctttaaccgcccacattctgttcgtaaaaaatcgccggt
3764738

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 3764737 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
3764678

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
2182

|||||
Sbjct: 3764677 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
3764618

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 3764617 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
3764558

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 3764557 ataatatgatctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
3764498

Query: 2303 cattccata 2311

||||
Sbjct: 3764497 catttcata 3764489

Score = 1255 bits (633), Expect = 0.0
Identities = 663/673 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 38216496 aacgccttattccactaggtggggtcggctacatggattaacttccgccataatgttcta
38216437

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 38216436 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
38216377

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 38216376 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
38216317

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 38216316 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
38216257

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

| |||||
Sbjct: 38216256 ttcaccatcttctctacaataggcgctactccaaccatctctctaatagttcgtttcta
38216197

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 38216196 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38216137

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 38216136 actttattctcatgttgggtcttgaccgtccaacattctgttccgtacaaaattgccggt
38216077

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 38216076 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataat
38216017

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 38216016 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
38215957

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 38215956 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
38215897

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 38215896 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
38215837

Query: 2303 cattccatatact 2315
 ||||| |||||||
Sbjct: 38215836 cattcaatatact 38215824

Score = 1154 bits (582), Expect = 0.0
Identities = 588/590 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 32346190 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
32346131

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||||||||||||||||||||||||||||||||||||| ||||||||||||||||||||||||
Sbjct: 32346130 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
32346071

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 32346070 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
32346011

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 32346010 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaaggtctattt
32345951

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 32345950 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
32345891

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 ||||||||| ||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 32345890 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 32345831

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

|||||
 Sbjct: 32345830 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
 32345771

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

|||||
 Sbjct: 32345770 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 32345711

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 2182

|||||
 Sbjct: 32345710 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 32345651

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgt 2232
 |||||

Sbjct: 32345650 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgt 32345601

Score = 930 bits (469), Expect = 0.0
 Identities = 478/481 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 39688370 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 39688311

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 39688310 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 39688251

Query: 1763 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 39688250 atagtctttttgggtcttctctgacctgaattgtttgtcttctctccatctgggtctact
 39688191

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 39688190 ctctcactacagagtctaccgatcttctctcgacatgcccaaaccacctaagtctattt
39688131

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 39688130 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
39688071

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 39688070 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39688011

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 39688010 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccagt
39687951

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 39687950 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
39687891

Query: 2123 a 2123
|
Sbjct: 39687890 a 39687890

Score = 771 bits (389), Expect = 0.0
Identities = 419/429 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 39042690 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
39042631

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Sbjct: 39042630 |||
 39042571 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt

Query: 1763 atagtcctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

Sbjct: 39042570 |||
 39042511 atagtcctttttgggtcttcctctgtctcgaattgtttgccttctctccatctgggtctact

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtcctattt
 1882

Sbjct: 39042510 |||
 39042451 ctctcactacagagtctaccggtattctctctacatacccaaaccacctaagtcctattt

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

Sbjct: 39042450 |||
 39042391 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

Sbjct: 39042390 |||
 39042331 attttatcctgtcgagtcttaccacacatccaccgcaatcctcatctccgctacacct

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

Sbjct: 39042330 |||
 39042271 actttattctcatgttgggtcttgaccacccaacattctgtgccgtacaaaatcgccggt

Query: 2063 cttaccgca 2071
 |||
 Sbjct: 39042270 cttaccgca 39042262

Score = 745 bits (376), Expect = 0.0
 Identities = 385/388 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

Sbjct: 8003113 |||
 8003054 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 8003053 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 8002994

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 8002993 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 8002934

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 8002933 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 8002874

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

|||||
 Sbjct: 8002873 tccaccatcttctctacaataggcgctactccaaccctcactctaataagcttcgtttcta
 8002814

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 8002813 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacaccg
 8002754

Query: 2003 actttattctcatgttggtctttgaccg 2030

|||||
 Sbjct: 8002753 actttattctcatgttggtctttgaccg 8002726

Score = 734 bits (370), Expect = 0.0
 Identities = 376/378 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 33391964 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 33392023

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 33392024 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
33392083

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 33392084 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
33392143

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 33392144 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
33392203

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 33392204 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
33392263

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 33392264 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
33392323

Query: 2003 actttattctcatgttgg 2020

|||||
Sbjct: 33392324 actttattctcacgttgg 33392341

Score = 720 bits (363), Expect = 0.0
Identities = 381/387 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 42107780 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
42107839

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||

Sbjct: 42107840 tcaagtaccatacttctatccaaatcattaagttcgagattcttcttgataacctctctt
 42107899

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 42107900 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 42107959

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 1882

|||||
 Sbjct: 42107960 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 42108019

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

|||||
 Sbjct: 42108020 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 42108079

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

|||||
 Sbjct: 42108080 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 42108139

Query: 2003 actttattctcatgttgggtctttgacc 2029

|||||
 Sbjct: 42108140 actttagtctcatgttgggtctttgacc 42108166

Score = 555 bits (280), Expect = e-155
 Identities = 283/284 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 39928493 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
 39928552

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 39928553 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
 39928612

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822
|||||
Sbjct: 39928613 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
39928672

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 39928673 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
39928732

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctct 1926
|||||
Sbjct: 39928733 tccaccatcttctctacaataggcgctactccaaccctctctct 39928776

Score = 535 bits (270), Expect = e-149
Identities = 285/290 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 6985901 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatattcta
6985842

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 6985841 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
6985782

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822
|||||
Sbjct: 6985781 atagtctttttgggtcttcctctgcctcaaactcgtttgcttctctccatctgggtctact
6985722

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 6985721 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
6985662

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagc 1932
|||||

Sbjct: 6985661 tccaccatcttctctacaataggcactactccaaccctctctctaatagc 6985612

Score = 529 bits (267), Expect = e-147
Identities = 282/287 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 99179 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
99120

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 99119 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
99060

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 99059 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
99000

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 98999 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
98940

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaata 1929

|||||
Sbjct: 98939 tccaccatcttctctataataggcgctactccaaccctctctctaata 98893

Score = 458 bits (231), Expect = e-126
Identities = 240/243 (98%)
Strand = Plus / Minus

Query: 2217 gatattttaaacggtgtgacttgagggataaatatgggtctcctatttttcacctctgagttag
2276

|||||
Sbjct: 39042254 gatattttaaacggtgtgacttgagagataaatatgggtctcctatttttcacctctgagttag
39042195

Query: 2337 gaaagccatgtgtttctagagctcgtctccaagtttccaacctctcattcaactcctccc
2396

Query: 2397 tcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgctatctctt
2456

```
Query: 2457      gaa 2459
      |||
Sbjct: 39042014 gaa 39042012
```

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

Query: 1703 tcaagtaccatacttcttatccaaaccattaatttcgagatcctttttgataacctctctt
1762

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

Sbjct: 10622132 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
10622073

Query: 1883 tccacc 1888
|||||
Sbjct: 10622072 tccacc 10622067

Score = 440 bits (222), Expect = e-120
Identities = 243/250 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 35797657 aacgccttatccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
35797598

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 35797597 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
35797538

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 35797537 atagtctttttgggtcttctctgcctcgaattgtttgccttctctccatctgggtctact
35797478

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 35797477 ctctcactacagagtctaccaatcttctctctacatgcccaaaccacctaagtctattt
35797418

Query: 1883 tccaccatct 1892
|||||
Sbjct: 35797417 tccaccatct 35797408

Score = 377 bits (190), Expect = e-101
Identities = 334/380 (87%), Gaps = 4/380 (1%)
Strand = Plus / Minus

Sbjct: 27217411 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
27217352

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 27217351 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
27217292

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 27217291 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
27217232

Query: 1823 ctctctact 1831

|||||
Sbjct: 27217231 ctctctact 27217223

Score = 313 bits (158), Expect = 3e-82
Identities = 182/189 (96%), Gaps = 2/189 (1%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 6600471 aacgccttatcccactaggtggggtcggctacatggatcaacttccgtcataatgttcta
6600530

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 6600531 tcaagtaccatacttctatccaaatcattaagttc--gatcctttttgataacctctctt
6600588

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 6600589 atagtctttttggatcttcctctgcctcgaattgtttgccttctctccatctggtctact
6600648

Query: 1823 ctctctact 1831

|||||
Sbjct: 6600649 ctctctact 6600657

Score = 301 bits (152), Expect = 1e-78
Identities = 155/156 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 7277289 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
7277348

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 7277349 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
7277408

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggt 1798
|||||
Sbjct: 7277409 atagtctttttgggtcttcctctgcctcgaattggt 7277444

Score = 283 bits (143), Expect = 2e-73
Identities = 183/197 (92%), Gaps = 12/197 (6%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 35974240 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
35974299

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 35974300 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctct-
35974358

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgtcttctctccatctggtctact
1822
|||||
Sbjct: 35974359 ---gtctttttgggtcttcctctgcctcgaattggttgtcttct-----ggtctact
35974407

Query: 1823 ctctcactacagagtc 1839
|||||
Sbjct: 35974408 ctctcactacatagtc 35974424

Score = 280 bits (141), Expect = 4e-72
Identities = 150/153 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 5600069 aacgccttttcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
5600128

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
||||||||| ||||||||||||||||||||||||||||||||||| ||||| ||||||||||||
Sbjct: 5600129 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
5600188

Query: 1763 atagtctttttgggtcttcctctgcctcgaatt 1795
||||||||| ||||||||||||||||||||
Sbjct: 5600189 atagtctttttgggtcttcctctgcctcgaatt 5600221

Score = 256 bits (129), Expect = 6e-65
Identities = 138/141 (97%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctatca
1705
||||||||| ||||||||||||||||||||||||||||||||||| |||||||||
Sbjct: 4119455 gccttatcccactaggtgggggtcggctacatggatcaacttccgccatgatgttctatca
4119514

Query: 1706 agtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765
||||||||| ||||||||||||||||||||||||||||||||||| |||||||||
Sbjct: 4119515 agtaccatactactatccaaaccattaatttcgagatccttttttataacctctcttata
4119574

Query: 1766 gtcttttttgggtcttcctctg 1786
||||||||| |||||||||
Sbjct: 4119575 gtcttttttgggtcttcctctg 4119595

Score = 244 bits (123), Expect = 2e-61
Identities = 261/305 (85%), Gaps = 4/305 (1%)

Strand = Plus / Minus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490

|||||
Sbjct: 39006365 atacaacaatgaaaaacgcacatgacaactacaaatcattaaataataaaataacaatca
39006306

Query: 7491 aataatttgggg---agg-gggtcttcaaaacttgattcaagggttcattgtatcatcgag
7546

|||||
Sbjct: 39006305 aataaattggggggtaggtgggtcttcaaaactcgattcaagggttcattgtttcatcgag
39006246

Query: 7547 gtattcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtgtgcata
7606

|||||
Sbjct: 39006245 gtattcatccaaaccctccaaattcaaagagctagcagaaattgggtgggtgtgcata
39006186

Query: 7607 tgtttatgtgggtgtgtctacgggtgataacataaaactcaaggcatgtgaagttgaagag
7666

|||||
Sbjct: 39006185 tgtttgtgtagggtgtttctgtgggtgtaatatataactccaggcatgtgagcttggatat
39006126

Query: 7667 tttcccaaatatagaaaacatagtaattatttcctcatcatcttgcagcatacatgcct
7726

||
Sbjct: 39006125 ttctacgaacataaaaaatcatagtcattatgtcctcatcatcgtgcaacatctatgcct
39006066

Query: 7727 gtact 7731

||||
Sbjct: 39006065 gtact 39006061

Score = 230 bits (116), Expect = 3e-57
Identities = 158/172 (91%)
Strand = Plus / Plus

Query: 6497 aaaaatatatatatttaactgacaagttgacttgaactaaaatatattaaattacaaaataga
6556

|||||
Sbjct: 15665704 aaaaaatatatatatttaaccaacaagttgaattgaactaaaatatattaaattacaaaataga
15665763

Query: 6557 tatgaaattacaacaatagaacaaaatatttaaatttgaaataatacaacaaaaatttt
 6616

|||| ||||| |||||||||||||||||||||||||||||||||| |||||||||||| |||
 Sbjct: 15665764 tataaaattataaacaatagaacaaaatatttaaatttgaaacaatacaacaaaattttc
 15665823

Query: 6617 aaaatacaacaatatggcataaaattaatggttggtggcctgagcctacaca 6668
 ||||||||| ||||| ||||| ||||||||||| || |||||||

Sbjct: 15665824 aaaatacaagaatatgacataaatttaatggttggtggcctgaacctacaca 15665875

Score = 226 bits (114), Expect = 5e-56
 Identities = 228/262 (87%), Gaps = 3/262 (1%)
 Strand = Plus / Minus

Query: 4757 ataactgttaatctttttattgataccgtaa-taataattaataagtaataattttttat
 4815

|||| |||||||||||||||| ||||||| || ||||||| || ||||| || |||
 Sbjct: 11697190 ataattgttaatctttttatttagtaccgtaagtaacaattaatgagcaataactcttcac
 11697131

Query: 4816 caatatcatagctttgttttagaaaaaaagagatttaataattaatagctaaagaaatcca
 4875

|||| ||||| ||||||||| ||||||| ||||||||| |||||||||||||||||||||
 Sbjct: 11697130 caatctcataactttgtttataaaaaaa-agatttaatagttaatagctaaagaaatcca
 11697072

Query: 4876 aaagtttttcttttatttttattttgttcctattcaattctaattttgtcat-ttttttc
 4934

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 Sbjct: 11697071 aatatttttcttttatttctatttcttctcctattcaattctaattttcttcttttttc
 11697012

Query: 4935 actgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgattattattt
 4994

|| |||| || |||||||||||||||||||||||| ||||||| ||||||||||||| |||
 Sbjct: 11697011 acggtctttcatacttctctgtcttctcacctgttcttcaacttacttgattattgttt
 11696952

Query: 4995 tactttgatacattagccaata 5016

|||| | |||||||||||||
 Sbjct: 11696951 cactttaacacattagccaata 11696930

Score = 222 bits (112), Expect = 8e-55
 Identities = 243/284 (85%), Gaps = 2/284 (0%)
 Strand = Plus / Plus

2702
Sbjct: 5258969 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctct
5259027

Score = 210 bits (106), Expect = 3e-51
Identities = 180/202 (89%), Gaps = 2/202 (0%)
Strand = Plus / Minus

Query: 4816 caatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatcca
4875
|||||
Sbjct: 13714582 caatatcatagctttgtttagaaaaaa-gagatttaataagtttaataagtttaagaaatcca
13714524

Query: 4876 aaagtttttcttttatttttattttgttcctattcaatttctaattttgtcatttttt-tc
4934
|||
Sbjct: 13714523 aaaaaaattcttttattttctatttcttttctattcaatttctaatttctgtcttcttttctc
13714464

Query: 4935 actgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgattattattt
4994
|
Sbjct: 13714463 attgtctctcatacttctttgtcttctcacctgtttcttcagtttacttgattattgttt
13714404

Query: 4995 tactttgatacattagccaata 5016
|||||
Sbjct: 13714403 cactttgacacattagccaata 13714382

Score = 200 bits (101), Expect = 3e-48
Identities = 224/261 (85%), Gaps = 3/261 (1%)
Strand = Plus / Minus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataattttttatc
4816
|||||
Sbjct: 13156996 taactattaatcttttcattgggtactgtaagtaacaattaattagcaacaactcttcac
13156937

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876
|||||
Sbjct: 13156936 aatatcatagctttgtttagaaaaaa-gagatttaataagttgatagctaacgaaaaccaa
13156878

Query: 4877 aagtttttcttttatttttattttgttcctattcaatttctaattttgtcat-ttttttca
4935
|||

```
Query: 5000      tgatacattagc 5011
           ||| |||||
Sbjct: 8040308 tgacacattagc 8040319
```

Query: 7518 cttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaagag
7577

Sbjct: 38544768 ctcgattcgagattcattgcttcttcaaggtattcatccaaaccctccaaatttaaagag
38544709

Query: 7578 cttgcagaaactgggtgggtgggtgtgcatatgtttatgtgggtgtgtctacgggtgataaca
7637

||||| ||| | ||||||| ||||||| ||||||| | | ||||||| ||||||| |
Sbjct: 38544708 cttgcaaaaattagtggtggatgtgcacatgtttgtataggtgtgtcaacgggtgataata
38544649

Query: 7638 taaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacatagtaattatt
7697

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Sbjct: 38544648 tataactcaaggatgtgagattggagagtttctgaacatagaaaatatagtcattaca
38544589

Query: 7698 tcctcatcatcttgcagcatacatgcctgtactgaaaacaatcaccaacaaatgata
7755

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Sbjct: 38544588 tcctcatcatcatgcaatatgcatgcctgtactaaccaatatcaccaacaaatgata
38544531

Score = 180 bits (91), Expect = 3e-42
Identities = 195/227 (85%), Gaps = 2/227 (0%)
Strand = Plus / Minus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490

||||||| || ||||||||| || | ||||||||| ||||||| ||||| |||||||
Sbjct: 27668983 atacaacaataaaaaacacacatgacgataacaaatcattaaataataaaaataacaatca
27668924

Query: 7491 aataatttggggaggggggtcttcaaaacttgattcaagggtcattgtatcatcgaggat
7550

||||| |||||| | | |||||| ||||||||| ||||||| ||||| |||||||
Sbjct: 27668923 aataaattgggggtggagggga-aaaactcgattcaagggtcattacttcatcaaggat
27668865

Query: 7551 tcacccaaaccctccaa-attcaaagagcttgcaaaaactgggtgggtgtgcatatgt
7609

||| ||||||||| ||||||||| ||||||||| ||||||||| ||||||| ||||
Sbjct: 27668864 tcatccaaaccctccaatattcaaagagcttgcaaaaactgggtgggtgtgcatatgt
27668805

Query: 7610 ttatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtga 7656

|| ||||||| ||||||| || ||| ||| ||||||||| |||||||
Sbjct: 27668804 ttgtgtgggtatgtctacgatggtaatatataactcaaggcatgtga 27668758

Score = 178 bits (90), Expect = 1e-41
Identities = 102/106 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 2116582 aacgccttatctcactaggtgggggtcggctacatggatcaacttccgccataatgttcta
2116641

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttt 1748
|||||
Sbjct: 2116642 tcaagtaccataacttctatccaaatcattaagttcgagatcctttt 2116687

Score = 174 bits (88), Expect = 2e-40
Identities = 94/96 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 535928 aacgccttatcccactaggtgggggtcggctacatggatcaatttccgccataatgttcta
535987

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcg 1738
|||||
Sbjct: 535988 tcaagtaccataacttctatccaaatcattaatttcg 536023

Score = 174 bits (88), Expect = 2e-40
Identities = 97/100 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 3161279 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttctg
3161220

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagat 1742
|||||
Sbjct: 3161219 tcaagtaccataacttctatccaaatcattaagttcgagat 3161180

Score = 174 bits (88), Expect = 2e-40
Identities = 225/268 (83%), Gaps = 12/268 (4%)
Strand = Plus / Plus

Query: 4761 ctgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTTatcaat
4819
|||||
Sbjct: 33991404 ctgttaatctttttattggtaccgtaagtaacaattaataagtaacaactcttcaccaat
33991463

Query: 4820 atcatagctttgtttag-aaaaaaagagatttaataattaatagctaaagaaatccaaaa
4878
|||||
Sbjct: 33991464 atcatagctttgtttagaaaaaaaaaagatttaatagttaataattcaagaaacccaaaa
33991523

Query: 4879 gtttttcttttatt-----tttattttgttcctattcaattctaattttgtc-att
4928
|||||
Sbjct: 33991524 acttttcttttatttctatttcttttatttcttttctattcaatttttagttatgtctcct
33991583

Query: 4929 tttttcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgatta
4988
|||||
Sbjct: 33991584 tttctcgtgtctctcacttctctatcttctcacatgcttcttcagtttacttgatta
33991643

Query: 4989 ttattttactttgatacattagccaata 5016
|| |||
Sbjct: 33991644 ttgtttcactttgacacattagccaata 33991671

Score = 172 bits (87), Expect = 7e-40
Identities = 234/281 (83%), Gaps = 4/281 (1%)
Strand = Plus / Minus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaaataatacaattacaatca
7490
|||||
Sbjct: 10905893 atacaacaatgaaaaacaaacatgactactacaaatcattagataactaaaataccaatca
10905834

Query: 7491 aataattt---ggggaggggggtcttcaaaacttgattcaagggttcattgtatcatcgagg
7547

```
Query: 5297      attaatTTTtaaattaatt 5314
           |||||
Sbjct: 36320105 attaatTTTtaaattaatt 36320122
```

Score = 167 bits (84), Expect = 4e-38
 Identities = 189/224 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 17378497 aaaattaattgtcacaaaatttattatctaaatttgcacataaatatacattaga
 17378556

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 17378557 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 17378616

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 17378617 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 17378676

Query: 5297 attaattttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
 |||||
 Sbjct: 17378677 attaattttaaattaatttgcataaaacatatatttttgaaaaaaaaa 17378720

Score = 165 bits (83), Expect = 2e-37
 Identities = 137/155 (88%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 5025742 aaaattaattgtcacaaaatttattatgtaaatttgcacataaatatacattaga
 5025683

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 5025682 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5025623

Query: 5237 agttggtagagcattatgttaataatgtgaaagt 5271
 |||||
 Sbjct: 5025622 agttggtagagcattatgttaataatgtgaaagt 5025588

Score = 165 bits (83), Expect = 2e-37
Identities = 149/170 (87%), Gaps = 2/170 (1%)
Strand = Plus / Plus

Query: 6488 ttgaaattaaaa--aatatatattttaactgacaagttgacttgaactaaaatattttaaat
6545
 ||||| || ||||| ||| | ||||| | ||||| ||||| |||||
Sbjct: 18685852 ttgaaattaaaacaaaaatatataattaacaagttaaattgaactaaaatattttaaat
18685911

Query: 6546 tacaaaaatagatatgaaattacaaacaatagaacaaaaatattttaatttgaaataataca
6605
 ||||| ||| ||||| | ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18685912 tacaaaaatatataaaattaccagcaattgaacaaaaatattttaatttgaaacaataca
18685971

Query: 6606 acaaaaattttaaaatacaaaacaatatggcataaaattaatgttggtggc 6655
 ||||| ||||| ||||| ||||| ||||| ||| |||||
Sbjct: 18685972 acaaaatgtttaaattacaaaaaatatgacataaatttaacgttggtggc 18686021

Score = 163 bits (82), Expect = 6e-37
Identities = 106/114 (92%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
1256
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41572420 tcatacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaa
41572479

Query: 1257 tatctgatatgtgggtcattggccacatgatattaaatttattttttgaaggg 1310
 ||||| ||||| ||| || ||||| | ||||| |||||
Sbjct: 41572480 tatctgatatgtggatcatcggtccacacggtatttaaattacttttttaaaggg
41572533

Score = 161 bits (81), Expect = 3e-36
Identities = 127/141 (90%), Gaps = 1/141 (0%)
Strand = Plus / Minus

Query: 6533 aaaatattttaattacaaaatagatatgaaattacaaacaatagaacaaaaatattttaaat
6592

|||||
Sbjct: 10908031 aaaatatttaaattacaaaatattt-taaaattaccaacaacataacaaaatatttaa
10907973

Query: 6593 ttgaaataataacaacaaaaatttttaaatacaacaatatggcataaaattaatgttg
6652

|||||
Sbjct: 10907972 ttgaaacaataacaacaaaaatttttaaatacaagaatatggcataaaattaacgttg
10907913

Query: 6653 ggcctgagcctacacaatggg 6673

|||
Sbjct: 10907912 ggcttgagcctacacagtggg 10907892

Score = 155 bits (78), Expect = 2e-34
Identities = 261/321 (81%), Gaps = 7/321 (2%)
Strand = Plus / Minus

Query: 7438 aatgaacaacacacatgacaactacaaatcattaaataatacaattacaatcaaataatt
7497

|||||
Sbjct: 9395838 aatgaaaaacacacatgacaactaaaaatcattaaataatacaataaaaaatcaaataat
9395779

Query: 7498 tggggaggggg---tcttcaaaacttgattcaagggttcattgtatcatcgaggattcac
7554

|||||
Sbjct: 9395778 tgggggggggggggtcttcaaaacataattcaagggtgcattgcttcatcgaagtattcat
9395719

Query: 7555 ccaaaccctcaaattcaaagagcttgagaaactgggtgggtgtgtgcatatgtttatg
7614

|||||
Sbjct: 9395718 ccaaaccctcataatttaaagagcttgtagaaattgggtgggtggatgtgtccatttttgtg
9395659

Query: 7615 tgggtgtgtctacggtgataacataaaactcaaggcatgtgaagttgaagagtttccaa
7674

|||||
Sbjct: 9395658 tgggtgtgtctgtgattgtaatatataactccatgcctgtgagcttgagattttccaa
9395599

Query: 7675 atatagaaaacatagtaatttttctcatcatcttgagcatacatgcctgtactgaa
7734

|||||
Sbjct: 9395598 ----agaaaatatattcattatgtcatcatcatcgtgcaacatgcatgctctgtagtgg
9395543

Query: 7735 aacaatcaccaacaaatgata 7755
 |||||
Sbjct: 9395542 cacaatcaccgacaaatgata 9395522

Score = 155 bits (78), Expect = 2e-34
Identities = 180/213 (84%), Gaps = 12/213 (5%)
Strand = Plus / Plus

Query: 4814 atcaatatcatagctttgtagaaaaaaagagatttaataattaatagctaaagaaatc
4873
 |||||
Sbjct: 13443129 atcaatattatagctttgtagaaaaaaata--ttaatagttaataactaaagaaatc
13443186

Query: 4874 caaaagtttttcttttatt-----tttattttgttcctattcaattctaattttgt
4924
 |||||
Sbjct: 13443187 caaaagtttttcttttatttttatttctctttattttcttcattcaattctaattctgt
13443246

Query: 4925 cat-ttttttctactgtctctcgacttctctgtcttctcacctgtttcttcagtttactt
4983
 |||||
Sbjct: 13443247 cttcttttctcactatttctcatacttcttctgtcttctcagttgtttcttaagtttattt
13443306

Query: 4984 gattattattttactttgatacattagccaata 5016
 |||||
Sbjct: 13443307 gattattgtttcactttaacacattagccaata 13443339

Score = 151 bits (76), Expect = 2e-33
Identities = 118/132 (89%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataataacattaga
5176
 |||||
Sbjct: 37365566 aaaattaattgtcataaaaatttattatgtaaatttacatgtgtattaaataacattaga
37365625

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||

Sbjct: 37365626 aatttttagtggttatatgtaatgtcattaattatttttataacataattgatctattagttt
 37365685

Query: 5237 agttgggtagag 5248
 |||||
 Sbjct: 37365686 agttgggtagag 37365697

Score = 149 bits (75), Expect = 1e-32
 Identities = 78/79 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 37675728 aacgccttatcccactaggtgggatcggctacatggatcaacttccgccataatgttcta
 37675787

Query: 1703 tcaagtaccataacttctat 1721
 |||||
 Sbjct: 37675788 tcaagtaccataacttctat 37675806

Score = 147 bits (74), Expect = 4e-32
 Identities = 167/198 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 36291958 aaaattaattgtcataaaaatttattatttaaatttacatgcacattaaatatatataaa
 36292017

Query: 5177 aatttttagtggttatatttagtgaaattaattatttttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 36292018 aatttttagtggttatgtataacaatattattttattataatgtaattagttcattagttc
 36292077

Query: 5237 agttgggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |||||
 Sbjct: 36292078 aattgggttaaagtattgtgttaataacttgaaagtcacaagttttattcttattttgatc
 36292137

Query: 5297 attaatttttaaattaatt 5314

|||||
Sbjct: 36292138 attaatttttaaattaatt 36292155

Score = 143 bits (72), Expect = 6e-31
Identities = 72/72 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 9998183 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
9998124

Query: 1703 tcaagtaccata 1714
|||||
Sbjct: 9998123 tcaagtaccata 9998112

Score = 141 bits (71), Expect = 2e-30
Identities = 134/155 (86%)
Strand = Plus / Plus

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

|||||
Sbjct: 6924754 aaattttagtattatatacagtaaaattaattattttataacataactgggtctattaatt
6924813

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattccttacttggat
5295

|||||
Sbjct: 6924814 tagttgggttagagcatcatgctaataatatgaaagtcacatattcaattcctgtatggat
6924873

Query: 5296 cattaatttttaaattaatttgtaaaatatattttt 5330
|||||
Sbjct: 6924874 cattaatttttaaattaattcgaaaaatatattttt 6924908

Score = 135 bits (68), Expect = 1e-28
Identities = 196/236 (83%), Gaps = 7/236 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 24707075 aaaattaattggtcataaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 24707134

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 |||||
 Sbjct: 24707135 aatttttagtcttatgtataacaacattattttattttaaaacataattgacttattagctc
 24707194

Query: 5237 agttggtagagcattatgt-taataatgtgaaagtcaaaagttcaattcttacttggat
 5295
 |||||
 Sbjct: 24707195 agttgattagag-----tgtctaataacttaaaagtcacagggttgattcttgcttgaat
 24707249

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351
 |||||
 Sbjct: 24707250 cattaatttttaaattaatttctaacagatatatttttgaaaaaaaaattataaaaaaa
 24707304

Score = 135 bits (68), Expect = 1e-28
 Identities = 187/224 (83%), Gaps = 2/224 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 |||||
 Sbjct: 44032322 aaaattaattattacaaaatttattatttttaatttacatgtgcattaaatatatattaaa
 44032263

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||
 Sbjct: 44032262 aaatttagtggttatatatagtaacattattttattttataacataattaacctattaactc
 44032203

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
 5296
 |
 Sbjct: 44032202 a-ttggtagagtatcgtgttaataaacctaaaagtcacatgtttaactcttggttgg-cc
 44032145

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
 |||||

Sbjct: 44032144 attaatttttaaattaattcataaagtatatatttttgaaaaaaaaa 44032101

Score = 131 bits (66), Expect = 2e-27
Identities = 66/66 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 15280413 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
15280472

Query: 1703 tcaagt 1708

|||||
Sbjct: 15280473 tcaagt 15280478

Score = 131 bits (66), Expect = 2e-27
Identities = 166/198 (83%), Gaps = 1/198 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176

|||||
Sbjct: 16765627 aaaattaattgtcacaaaatttattatttaaatttacatgtgcattaaatatacattaaa
16765568

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 16765567 aatttttagtggttatgtataataacattatttattttataatgtaattgacttattagctc
16765508

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

||||
Sbjct: 16765507 agtt-gttagagtattgtgctaataacctgaaagtcacatgttcgatttttgtttgggcc
16765449

Query: 5297 attaatttttaaattaatt 5314

|||||
Sbjct: 16765448 attaatttttaaattaatt 16765431

Score = 131 bits (66), Expect = 2e-27
Identities = 126/146 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 35361758 aaaattaattgtcacaaaatttattatcatgtaaatttacctggttaaatacattaga
35361817

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 35361818 aattttaatggttatatatagcgacattaattattttataacataattagcctattagctc
35361877

Query: 5237 agttggtagagcattatgttaataa 5262
 | |||||
Sbjct: 35361878 aattggtagagcgttgtgttaataa 35361903

Score = 129 bits (65), Expect = 9e-27
Identities = 115/131 (87%), Gaps = 3/131 (2%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 2680391 aaaattaattgtcacaaaatttattatttaaatttacctacacattaaatgtacattaga
2680332

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 2680331 aatttttagtggttatatata---acattatttattttataacataattgacttattagctt
2680275

Query: 5237 agttggtaga 5247
 |||||
Sbjct: 2680274 agttggtaga 2680264

Score = 129 bits (65), Expect = 9e-27
Identities = 113/129 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

|||||
Sbjct: 14931130 aaaattaattgtcacaaaatttattatttaaatttacatgcgtattaaatatacattaga
14931071

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 14931070 aatttttagtggttatgtatagcaatattattttattttataacataattgactcattagctc
14931011

Query: 5237 agttgggta 5245

|||||
Sbjct: 14931010 agttgggta 14931002

Score = 129 bits (65), Expect = 9e-27
Identities = 110/125 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176

|||||
Sbjct: 17424390 aaaattaattgtcacaaaatttattatgtaaatttacatgagcattaaatatacattaga
17424449

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 17424450 aatttttagtattatatataacgacattagttattttataacataattgatttattaactc
17424509

Query: 5237 agttg 5241

|||||
Sbjct: 17424510 agttg 17424514

Score = 129 bits (65), Expect = 9e-27
Identities = 104/117 (88%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattag
5175

|||||
Sbjct: 40363751 aaaaattaattgtcacaaaatttattacgtaaatttacatgtgcattaaatatatattag
40363810

Query: 5176 aaatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtatta
 5232

|||||

Sbjct: 40363811 aaatTTtagtgTtatatataacgatattaattatTTTataacataattgatttatta
 40363867

Score = 127 bits (64), Expect = 3e-26
 Identities = 103/116 (88%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

|||||

Sbjct: 7116478 aaaattaattgtcacaaaatttattatgtaaatttacatatgcattaaatatacattaaa
 7116537

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtatta 5232

|||||

Sbjct: 7116538 aatTTtagtattatatataatgatattaattatTTTataacataattgatttatta
 7116593

Score = 127 bits (64), Expect = 3e-26
 Identities = 118/136 (86%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

|||||

Sbjct: 30955229 aaaattaattgtaataaaaatttattatTTTaaatttacatacacattaaatatacattaga
 30955288

Query: 5177 aatTTtagtgTtatatTTtagtgaaattaattatTTTataacataattgatgtattagttc
 5236

|||||

Sbjct: 30955289 aatTTtagtgTtatgtatagcaacattatTTTatTTTgtaataaattggcTtattagctc
 30955348

Query: 5237 agttggTtagagcatt 5252

|||||

Sbjct: 30955349 agttggTtagagcatt 30955364

```
Query: 5237      agttggttagagcattatgttaataatgtgaaagt 5271
                || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 42803879 aggtggttagaacatcggttaataacgtgaaagt 42803845
```

```
Query: 5237      agttggtttagagcat 5251
           |||| |||||
Sbjct: 4091895  agttaqtttagagcat 4091881
```

Score = 125 bits (63), Expect = 1e-25
Identities = 95/105 (90%), Gaps = 3/105 (2%)
Strand = Plus / Minus

Query: 6885 tacacaagatgtatgtagttcctatactcatgggtgagcatgcttata---aacaacaaca
6941
|||||
Sbjct: 37876135 tacacaagatgtatgtagttcctatactcacagtgagcatgcttacaagcaacaaca
37876076

Query: 6942 tgagaacaaaacatgtgcattttttgaaatttgtcacagtcacac 6986
|||||
Sbjct: 37876075 tgagaacaaatcatgtgcaattttttggaatttgccacagtcacac 37876031

Score = 125 bits (63), Expect = 1e-25
Identities = 81/87 (93%)
Strand = Plus / Minus

Query: 6569 aacaatagaacaaaatattttaatttgaaataataacaacaaaattttaaaatacaaaaca
6628
|||||
Sbjct: 37876420 aacaatagaacaaaatattttaatttgaaacaataacaacaaaattttaaaatacaaga
37876361

Query: 6629 atatggcataaaaattaatggttggc 6655
| |||
Sbjct: 37876360 acatgacataaattcaatggttggc 37876334

Score = 121 bits (61), Expect = 2e-24
Identities = 159/191 (83%), Gaps = 3/191 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 9164490 aaaattaattgttaaaaaatttattatttaaatttacatacgtattaaatgcataga
9164549

Query: 5177 aatttttagtggttatatttagtgaaatta---attattttataacataattgatgtattag
5233
|||||
Sbjct: 9164550 aatttttagtggttatgtatagtaacattatttattttttataatataattgactcattag
9164609

Query: 5234 ttcagttgggttagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttgg
5293
|| |||||
Sbjct: 9164610 tttagttgggttagaacattgtgctaataaattgaaagtgataagttcaagtcctgttgg
9164669

Score = 119 bits (60), Expect = 9e-24
Identities = 146/174 (83%), Gaps = 3/174 (1%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattgtta---caaaatttattatctaaatttgcattgcacaataaaatataca
5171

Sbjct: 729084 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
729025 aaaaaattaattattagatcaaaattaattatctaaattacatgttcattaaatatata

Query: 5172 ttagaaaatttttagtgttatatatttagtgaaattaattattttataacataattgatgtatt
5231

Sbjct: 729024 ttagaaattttattgttatatataacgatattaattattttataacataattagtgtatt
728965

Query: 5232 agttcagttggttagagcattatgttaataatgtgaaagtcaaaagttcaattc 5285

Sbjct: 728964 agctcaattggttagaacatcgtgctaataatgaaaaattcataggttcaattc 728911

Score = 119 bits (60), Expect = 9e-24

Identities = 114/132 (86%)

Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaattttattatctaaatttgcattgcacaataaatatacattaga
5176

Sbjct: 38441058 ||||| | ||||| ||||| ||| || ||||| |||||
38440999 aaaaattattatcacaaaatttaatatctaaatttatatgtgcattaaatatacatataaa

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

Sbjct: 38440998 |||
38440939

Query: 5237 agttggtttagag 5248

Sbjct: 38440938 agttgggttagag 38440927

Score = 119 bits (60), Expect = 9e-24

Identities = 114/132 (86%)

Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaaatatacattaga
5176

Sbjct: 4092250 ||||| | ||||| ||||| ||| || |||||
4092309 aaaattaattgtcataaaatttattatgtaaattacatgtgcattaaatacatataaaa

Query: 5177 aat t t t t a g t g t t a t a t t t a g t g a a a t t a a t t a t t t t t a t a a c a t a a t t g a t g t a t t a g t t c
5236

Sbjct: 4092310 aaatttagtattgtatataacaacattaattattttataacataattgatctattaactc
4092369

Query: 5237 agttggtttagagcattatgttaata 5261

Sbjct: 4092370 aattggtagagtgttatgttaata 4092394

Score = 113 bits (57), Expect = 5e-22
Identities = 338/431 (78%), Gaps = 8/431 (1%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737

Sbjct: 39010027 atgcaacatatgaaacatcgctttggttgacgtggttcttggatatccatttcggtgtgg
39009968

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797

Sbjct: 39009967 ||| |||| |||| |||| | | |||||| | | |||| | | |||| | | |||| |
39009908

Query: 6798 cttggccttgtagacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
6857

Sbjct: 39009907 attggctcatgacacggtggtcaataagctttattgcacaattttccaacaatgctttg
39009848

Query: 6858 tacatggtatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatgg
6917

|| ||||| ||| | ||||| | ||||| ||||| ||| | ||||| |||||
Sbjct: 39009847 tatatgttgagacatttttcaacatatacacaagatgtatgtaattcttgactcatgg
39009788

Query: 6918 t g a g c a t g c t t a t a ----- a a c a a c a a c a t g a g a a c a a a a c a t g t g c a t t t t t t g a a t
6971

Sbjct: 39009787 taagcatgcttacaagcaacaacaacatgagaataagacctgtgcaatttctagaat
39009728

Query: 6972 ttgtcacagtcacactacctttcatctagcttgaccatgaaatttctcactagttgaatc
7031

[illegible]

Sbjct: 39009727 tttttacaatcacaccacctttcattcagcctaatacatgaaatctctagcaagttgaa--
 39009670

Query: 7032 tctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcgaactcaa
 7091

|| |||| ||| |||||||||||||||| |||| | |||| ||| ||| |||||||
 Sbjct: 39009669 cctttctcgggtttattgtctcctagaccaagaatcatgtgtcacatcgatcaaactcaa
 39009610

Query: 7092 gaacaatgtga 7102

||||| |||||
 Sbjct: 39009609 gaacagtgtga 39009599

Score = 111 bits (56), Expect = 2e-21
 Identities = 125/148 (84%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
 5176

||||||||| | |||||||||||||||| ||| ||| |||| | ||||||||| |||| |
 Sbjct: 2680520 aaaattaattatcacaaaatttattatttaattttacatgtgcattaaatatatattaaa
 2680579

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||||| |||||||| ||| | |||| |||||||||||||||||||| |||| |
 Sbjct: 2680580 aatttttaattgttatatatagcaacattatttattttataacataattgacctattaactt
 2680639

Query: 5237 agttgggttagagcattatgttaataatg 5264

| |||||||||||||||| |||||||||
 Sbjct: 2680640 aattgggttagagcattatgctaataatg 2680667

Score = 111 bits (56), Expect = 2e-21
 Identities = 101/116 (87%)
 Strand = Plus / Plus

Query: 5147 aatttgcattgcacaataaatatacattagaaatttttagtggttatatttagtgaaattaat
 5206

||||| |||||| | |||||||||||||||| ||||||||||||| || | |||| |
 Sbjct: 14166730 aatttacatgcagattaaatatacattagaaaatttagtggttatataacaacattatt
 14166789

Query: 5207 tattttataacataattgatgtatttagttcagttgggttagagcattatgttaataa 5262

|||||
Sbjct: 14166790 tattttataacataattggggttatttagttcagttgggttagagcatcatattaataa
14166845

Score = 111 bits (56), Expect = 2e-21
Identities = 96/108 (88%), Gaps = 1/108 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 17925827 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattaga
17925886

Query: 5177 a-atTTtagtggttatatttagtgaaattaattattttataacataatt 5223
| |||||
Sbjct: 17925887 atTTTTtagtggttatataacaacattatttattttataacataatt 17925934

Score = 111 bits (56), Expect = 2e-21
Identities = 146/176 (82%)
Strand = Plus / Minus

Query: 5139 attatctaaatttgcacataaatatacattagaaatttttagtggttatatttagtg
5198

|||||
Sbjct: 21014199 attatataaaatttacatgtgcattaaatatacattaaaaatccttagtattatgtatagca
21014140

Query: 5199 aaattaattattttataacataattgatgtatttagttcagttgggttagagcattatgtta
5258

| |||||
Sbjct: 21014139 acattaattattttataacataattgggtctattagctcagttgattagagtattgtgcta
21014080

Query: 5259 ataatgtgaaagtcaaaagttcaattcttacttgatcattaattttaaattaatt 5314
|||||
Sbjct: 21014079 ataatacgaaagttatagggttgattcttgcttagaccattaattttaaattaatt
21014024

Score = 111 bits (56), Expect = 2e-21
Identities = 92/104 (88%)
Strand = Plus / Plus

Query: 5118 aaattaattggttacaaaatttattatctaaatttgcacataaatatacatagaa 5177
 |||||
 Sbjct: 36034288 aaattaattggttacaaaatttattatataaaatttgtatgcacattaaatatacatataaa 36034347

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataa 5221
 | |||||
 Sbjct: 36034348 aatttagtattatataacacacattaattcttttataatataa 36034391

Score = 109 bits (55), Expect = 8e-21
 Identities = 55/55 (100%)
 Strand = Plus / Plus

Query: 1751 ataacctctcttatagtccttttgggtcttcctctgcctcgaattgtttgtcttc 1805
 |||||
 Sbjct: 536035 ataacctctcttatagtccttttgggtcttcctctgcctcgaattgtttgtcttc 536089

Score = 109 bits (55), Expect = 8e-21
 Identities = 120/139 (86%), Gaps = 2/139 (1%)
 Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata 6575
 |||||
 Sbjct: 10908306 acaagttgaattgaactaaaatatttaaattacaaaatattt-taaaattatccccaaca 10908248

Query: 6576 gaacaaaatatttaaatttgaaataatacaacaaaaattttaaaatacaaacaatatggc 6635
 |||||
 Sbjct: 10908247 taacaaaatatttaaatttgaaacaatacaa-aaaaaattttaaaatacaaagaatatgac 10908189

Query: 6636 ataaaattaatgttggttg 6654
 |||||
 Sbjct: 10908188 ataaatttaacattgttg 10908170

Score = 107 bits (54), Expect = 3e-20
 Identities = 132/158 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 20317912 aaaattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatattaga
20317971

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 20317972 aatttttagtattatgtataacaacattatttattttataatataattgactcattagctc
20318031

Query: 5237 agttggtagagcattatggttaataatgtgaaagtcaa 5274
|
Sbjct: 20318032 aattggtaaagtattatgctaatacacctgaaagtcaa 20318069

Score = 107 bits (54), Expect = 3e-20
Identities = 106/122 (86%), Gaps = 1/122 (0%)
Strand = Plus / Plus

Query: 5124 attggtacaaaatttattatctaaatttgcacataaatatacattagaaatttta
5183
||||
Sbjct: 39079815 attggtacaaactttattatgtaaatttacatgtgcattaaatatatacattagaaatttta
39079874

Query: 5184 gtggttatatttagtgaaattaattattttataacataattgatgtattagttcagttggt
5243
||
Sbjct: 39079875 gtattatatataacgacattaattattttataacataattg-tctattaactcagttggt
39079933

Query: 5244 ta 5245
||
Sbjct: 39079934 ta 39079935

Score = 107 bits (54), Expect = 3e-20
Identities = 111/130 (85%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacataaatatacattag
5175
||||

Sbjct: 43237473 aaaatttaattgtcacaaaatttattatataaatttacaagtatattaaatatatattaa
43237532

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

|||||
Sbjct: 43237533 aaatttttagtggttatatataaaaaatattaattattttataatataattgacttattaatt
43237592

Query: 5236 cagttgggta 5245

|||||
Sbjct: 43237593 cagttgggta 43237602

Score = 105 bits (53), Expect = 1e-19
Identities = 104/121 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatacacataaatatacattaga
5176

|||||
Sbjct: 1951725 aaaattaattatcaaaaaaattattatataaaacttacatgtgcattaaatatacattaga
1951666

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 1951665 aatttttagtattatataactacattaattattttataacataattgatctattagttc
1951606

Query: 5237 a 5237

|
Sbjct: 1951605 a 1951605

Score = 105 bits (53), Expect = 1e-19
Identities = 110/129 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatacacataaatatacattaga
5176

|||||
Sbjct: 15635971 aaaattaattgtcacaaaatttattatataaatttacatatgcattaaatatacattaga
15636030

Score = 103 bits (52), Expect = 5e-19
Identities = 76/84 (90%)
Strand = Plus / Minus

Query: 5014 ataattttaataaattatTTTTatgaataaataaaaagggttttattcttaaatttgcttgag
5073
 |||||
Sbjct: 13711447 ataattttaataaactatTTTTatgagtaaataaaaaggcctcattcttaaatttgctttag
13711388

Query: 5074 ccctctcaagtccttgagccgcc 5097
 |||||
Sbjct: 13711387 gcctctcaagtccttgagtcgcc 13711364

Score = 103 bits (52), Expect = 5e-19
Identities = 85/96 (88%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataatacaacaaaaatttttaaatacaaacatattggcataa
6639
 |||||
Sbjct: 42182746 aaaatattttaaatttgaaacaatacaaccaaatttttaaagtacaaagaatatgacataa
42182687

Query: 6640 aattaatgttggttgacctgagcctacacaatggggg 6675
 | |||||
Sbjct: 42182686 acttaatatgttggttgacctataacaatagggg 42182651

Score = 101 bits (51), Expect = 2e-18
Identities = 69/75 (92%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatTTTTatgaataaataaaaagggttttattcttaaatttgcttgag
5073
 |||||
Sbjct: 8040705 ataattttaataaattatTTTTatgagtaaataaaaaggcttcattcttaaatttacttttag
8040764

Query: 5074 ccctctcaagtcctt 5088
 |||||
Sbjct: 8040765 acctctcaagtcctt 8040779

Score = 101 bits (51), Expect = 2e-18
Identities = 94/107 (87%), Gaps = 1/107 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176

|||||
Sbjct: 17378298 aaaattaattgtcacaaa-tttattatttaaatttacatatacattaaataacattaaa
17378240

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223

| |||||
Sbjct: 17378239 agtttttagtattatatataatgacattaattattttataacataatt 17378193

Score = 101 bits (51), Expect = 2e-18
Identities = 108/127 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176

|||||
Sbjct: 17424352 aaaattaattgtcacaaaatttattatgtaaatttacatgtgttttaataacattaaa
17424293

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 17424292 aattttaattattatatataacgacattaattattttataacataatttacgtattagctc
17424233

Query: 5237 agtttgt 5243

| |||||
Sbjct: 17424232 aatttgt 17424226

Score = 101 bits (51), Expect = 2e-18
Identities = 108/126 (85%), Gaps = 2/126 (1%)
Strand = Plus / Minus

Query: 5120 attaattggttacaaaatttattatctaaatttgcacataaataacattagaaat
5179

|||||
Sbjct: 20052121 attaattgtcacaaaatttattatgtaaatttatatgtgcattaaataacattaaaaat
20052062

Query: 5180 ttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttcagt
5239

|||||
Sbjct: 20052061 ttttagt--tatatataacaacattaattattttataatataaattgggtgtattagctcagt
20052004

Query: 5240 tgggta 5245
 |||||
Sbjct: 20052003 tgggta 20051998

Score = 101 bits (51), Expect = 2e-18
Identities = 238/299 (79%), Gaps = 1/299 (0%)
Strand = Plus / Plus

Query: 7459 ctacaaatcattaaataataacaattacaatcaaataatttggggaggggggt-cttcaaaa
7517
 |||||
Sbjct: 39197143 ctacaaatcattaaataataaaaataacaatcaaataaattggggggatttttcttcaaaa
39197202

Query: 7518 cttgattcaagggttcattgtatcatcgagggtattcacccaaaccctccaaattcaaagag
7577
 || ||||| ||||| || | | ||||| ||||| ||||| ||||| |||||
Sbjct: 39197203 ctcaattcaatgttcactgcttgagtgatgtattcatccaaacccttaaaattgaaagag
39197262

Query: 7578 cttgcagaaactggtggtggttgatgtgcatatgtttatgtgggtgtgtctacggtgataaca
7637
 | ||||| ||||| ||||| ||||| ||||| ||||| || || ||||| || |
Sbjct: 39197263 ttggcagaaattggtggtggatgtgcaaattgtttgtgtgggcgggtccacggtggttaata
39197322

Query: 7638 taaaactcaaggcatgtgaagttgaagagtttcccaaatatagaaaacatagtaattatt
7697
 || || ||||| ||||| || || || ||||| || ||||| || || |||||
Sbjct: 39197323 tacaagtcaaggcatgtgatcttgagatgtttgcaaactggaaaacttattcattaca
39197382

Query: 7698 tcctcatcatcttgagcagcatacatgccctgtactgaaaacaatcaccaacaaatgatac
7756
 || ||||| || || || ||||| || || || ||||| ||||| |||||
Sbjct: 39197383 tcatcatcattgtgcaacatgcatgccatgcacttgccacaatcaccaacaaatgatac
39197441

Score = 99.6 bits (50), Expect = 8e-18
Identities = 104/122 (85%)
Strand = Plus / Plus

```

Query: 5236      cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggat
5295            ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 36069397 caattgattaaagcgccatgctaataatgaaaaagtcacaagttca-----tgcatgcgt
36069343

```

Query: 5296 cattaatttttaaattaatttgtaaaatatatattttga 5332
 ||||| ||||||||||||||||||| |||||||||
Sbjct: 36069342 cattagtttttaaattaatttgtaaaacatatattttga 36069306

Score = 97.6 bits (49), Expect = 3e-17
Identities = 156/189 (82%), Gaps = 7/189 (3%)
Strand = Plus / Minus

Query: 6883 tatacacaagatgtatgtagttcctatactcatgggtgagcatgcttataaac---aaca
6939
 ||||||| |||| ||||||||| | ||||||||||||||||||| || | |||||
Sbjct: 42182479 tatacacaggatgcatgtagttcctgtactcatgggtgagcatgcttacaagcagtaacaa
42182420

Query: 6940 catgagaacaaaacatgtgcattttttgaaatttgtcacagtcac--actacctttcatc
6997
 ||||||||||| ||||| ||| || || ||||||||| ||||||||| ||| |||||||||
Sbjct: 42182419 catgagaacaagacatgcgcaattcctgaaatttgccacagtcacaaactatctttcatc
42182360

Query: 6998 tagcttgaccatgaaattttctcactagttgaatctctctctccagttaattgtctcctag
7057
 ||| ||| ||||||||| || | ||||||| ||||||||| ||| ||||||||| |
Sbjct: 42182359 cagcctgatcatgaaatctccagcgggttgaa--cctctctcgagtttattgtctcctgg
42182302

Query: 7058 actaagaat 7066
 |||||||
Sbjct: 42182301 actaagaat 42182293

Score = 95.7 bits (48), Expect = 1e-16
Identities = 75/84 (89%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtgttatatatttagtgaaattaattattttataacataa
5221
 ||||||| |||| ||||||||||||||||||| |||| | ||||||||||||||||||| |
Sbjct: 2554240 taaatataatattattaatttttagtgttatatatagtaacattaattattttataacatta
2554181

Query: 5222 ttgatgtattagttcagttgggta 5245
 || | |||||||||||||||||||
Sbjct: 2554180 tttagctattagttcagttgggta 2554157

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 129/155 (83%), Gaps = 2/155 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| ||| ||||| ||||| ||| || ||||| |||||
 Sbjct: 4750620 aaaattaattgtcacaa--tttattatttaaatttacatgtgcattaaatacacattaga
 4750677

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 ||||| || | ||| ||||| ||||| | ||| | |||||
 Sbjct: 4750678 aatttttagtggttatatataacaacattattttattttataacggttattgggttcattagttc
 4750737

Query: 5237 agttgggttagagcattatgttaataatgtgaaagt 5271
 ||||| ||| || ||| ||||| |||||
 Sbjct: 4750738 agttgggttaaagcggttggtgtcaataacctgaaagt 4750772

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 93/106 (87%), Gaps = 4/106 (3%)
 Strand = Plus / Minus

Query: 5118 aaattaattggttacaaaatttattatctaaatttgcacataaatatacattagaa
 5177
 ||||| ||| ||||| ||||| ||| || ||||| |||||
 Sbjct: 36034175 aaattaattgtcacaa--tttattatctaaatttacatgtgcattaaatatattagaa
 36034118

Query: 5178 attttagtggttatatttagtgaaattaattattttataacataatt 5223
 ||||| || | || ||||| ||||| |||||
 Sbjct: 36034117 attttagtggttatatataat--aactaattattttataacataatt 36034074

Score = 95.7 bits (48), Expect = 1e-16
 Identities = 69/76 (90%)
 Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
 5221
 ||||| ||| ||||| ||| || ||||| |||||

Sbjct: 39182812 taaatatacattaaaaattatagtgttatatatagcgacattaattatTTTTTaaacataa
39182753

Query: 5222 ttgatgtattagttca 5237
||||| |||||||||
Sbjct: 39182752 ttgatctattagttca 39182737

Score = 93.7 bits (47), Expect = 5e-16
Identities = 47/47 (100%)
Strand = Plus / Minus

Query: 1892 ttctctacaataggcgctactccaaccctctctctaataagcttcggt 1938
|||||
Sbjct: 10621892 ttctctacaataggcgctactccaaccctctctctaataagcttcggt 10621846

Score = 93.7 bits (47), Expect = 5e-16
Identities = 65/71 (91%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatTTTatgaataaataaaagggttttattcttaaatttgcttgag
5073
|||||
Sbjct: 13443651 ataattttaataaactatTTTatgaataaataaaagattttattcttaaatttactttag
13443710

Query: 5074 ccctctcaagt 5084
|||||
Sbjct: 13443711 atctctcaagt 13443721

Score = 93.7 bits (47), Expect = 5e-16
Identities = 129/155 (83%), Gaps = 1/155 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataaatatacattaga
5176
|||||
Sbjct: 14989383 aaaattaattgtcacaaaatatatttttaaatttatatacgcatataacattata
14989442

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttc
5236
|||||

Sbjct: 14989443 aatttttagtggttatataataacaacattatatttttat-atataattgacttattaactc
14989501

Query: 5237 agttggtagagcattatggttaataatgtgaaagt 5271
||||||| ||| |||| | |||| | |||||
Sbjct: 14989502 agttggttaaagcggtatgctaataacctgaaagt 14989536

Score = 93.7 bits (47), Expect = 5e-16
Identities = 129/155 (83%), Gaps = 1/155 (0%)
Strand = Plus / Plus

Query: 5119 aattaattgttacaaaatttattatctaaatttgcacataaatatacattagaaa
5178
||||||| ||||||||| ||||||| ||||| || ||||||| |||||||
Sbjct: 16765851 aattaattgtcacaaaatttattatttaaatttacatgcgcattaaatatattagaaa
16765910

Query: 5179 ttttagtggttatatttagtgaaattaattatattttataacataattgatgtattagttcag
5238
||||| |||| | || | |||| | ||||||| ||||| |||||||
Sbjct: 16765911 -tttagtattatctatagcaacattatttattttataatgtaattagctcgtagttcag
16765969

Query: 5239 ttggtagagcattatggttaataatgtgaaagtca 5273
||||||| |||| | |||| | |||||||
Sbjct: 16765970 ttggtagagcggtatgctaataacctgaaagtca 16766004

Score = 93.7 bits (47), Expect = 5e-16
Identities = 124/147 (84%), Gaps = 2/147 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||||| |||| | ||||||| ||||||| ||||| || ||||||| |||||
Sbjct: 17925604 aaaattaattgtcacaaa-tttattatttaaatttacatgcgcattaaatatacattaaa
17925546

Query: 5177 aatttt-agtggttatatttagtgaaattaattatattttataacataattgatgtattagtt
5235
| |||| | ||||||| || | | || | ||||||| ||||||| |||||
Sbjct: 17925545 attttttagtggttatataataaactatttattttgtaacataattgaactattaatt
17925486

Query: 5236 cagttggtagagcattatggttaataa 5262

||||| | ||| |||||
Sbjct: 17925485 cagttgggttaaacattgtgttaataa 17925459

Score = 91.7 bits (46), Expect = 2e-15
Identities = 94/110 (85%)
Strand = Plus / Minus

Query: 5154 atgcacaataaatatacattagaaatTTtagtggtatatTTtagtgaaattaattatttta
5213

||||| ||||||| ||||||| || || | ||| |||||
Sbjct: 14048761 atgcacattaaatatacattagaaatTTtagtggtatatataacaacattatttatttta
14048702

Query: 5214 taacataattgatgtattagttcagttgggttagagcattatgttaataat 5263

||| ||||| | || | ||||||| ||||| |||||
Sbjct: 14048701 taagataattggtatataaaactcagttgggttagagtggttatgtaaataat 14048652

Score = 91.7 bits (46), Expect = 2e-15
Identities = 163/200 (81%), Gaps = 4/200 (2%)
Strand = Plus / Minus

Query: 7459 ctacaaatcattaaataataacaattacaatcaaataatttgg--ggaggggggtcttcaaa
7516

||||| ||||||| || || ||||||| |||| | || | |||||
Sbjct: 27291216 ctacaaatcattaaataataaaaataacaatcaaataaattggaaggggggtttcttcaaa
27291157

Query: 7517 acttgattcaagggttcattgtatcatcgaggtattcacccaaaccctcaaattcaaaga
7576

||| ||||||| |||| | ||||||| || | ||||||| |||| ||| |
Sbjct: 27291156 actcaattcaagggttaattgcttgagcgaggtatccatcaaaaccctc--aattgaaaaa
27291099

Query: 7577 gcttgcagaaactggtggtggttgtgcatatgtttatgtgggtgtgtctacggtgataac
7636

| || | ||| ||||||| ||||| ||||| ||||| | |||| | ||| |||||
Sbjct: 27291098 gattccataaattggtggtggatgtgcacatgtttgtgtgggcgggtctgtggtggtaac
27291039

Query: 7637 ataaaactcaaggcatgtga 7656

||| |||| | |||||
Sbjct: 27291038 atacaactccaagcatgtga 27291019

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 61/66 (92%)
 Strand = Plus / Minus

Query: 637 ttaagtttagtaatagtagagtgatggttgatgaattaaacttaagattggttgaagttat
 696
 |||||
 Sbjct: 29606647 ttaagtttagtcacagtagagtgatatttgattaattaaacttaagttggttgaagttat
 29606588

Query: 697 tgatct 702
 |||||
 Sbjct: 29606587 tgatct 29606582

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 114/135 (84%), Gaps = 5/135 (3%)
 Strand = Plus / Plus

Query: 6883 tatacacaagatgtatgtagttcctatactcatggtgagcatgcttata---aacaacaa
 6939
 |||||
 Sbjct: 38147109 tatacacatgatgtatgtagttttgtactcatgatgagcatacttacaagcaacaacaa
 38147168

Query: 6940 catgagaacaaaacatgtgcattttttgaaatttggtcacagtcacactacctttcatcta
 6999
 |||||
 Sbjct: 38147169 catgagaacaagacatgtgcaattttctggaatttg--acagtcacaccacctttcatcca
 38147226

Query: 7000 gcttgaccatgaaat 7014
 | ||||
 Sbjct: 38147227 acctgacaatgaaat 38147241

Score = 91.7 bits (46), Expect = 2e-15
 Identities = 79/90 (87%)
 Strand = Plus / Minus

Query: 6576 gaacaaaatattttaatttgaaataatacaacaaaaattttaaaatacaaacatgatggc
 6635
 ||||
 Sbjct: 39010151 gaactaaaaattttaatttgaaacaatacaacaaaaattttaaaatataaagaatatgac
 39010092

Query: 6636 ataaaattaatggttggtggcctgagcctac 6665
 ||||| | ||||||||| |||||||
Sbjct: 39010091 ataaattcaatggttggtggcctgagcctac 39010062

Score = 89.7 bits (45), Expect = 8e-15
Identities = 93/109 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||| | ||||||||| |||||| | || | ||||||||| |
Sbjct: 3219108 aaaattaattatgacaaaatttattatgtaaatttacatgtgtattaaatatacattaaa
3219167

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 || ||||| ||||| || | ||||||||| |||||||||
Sbjct: 3219168 aaatttagtattatatataacaacattaattattttataacataattga 3219216

Score = 89.7 bits (45), Expect = 8e-15
Identities = 111/133 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||||| || | ||||||||| || | |||||| | || | ||||||||| |
Sbjct: 9726848 aaaattaactgtcacaaaatttactatgtaaatttacatgtgctgctaaatatacattata
9726789

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||| || | ||||||||| || | ||||| |||||
Sbjct: 9726788 aatttttagtggttatatatgactatatattaattattttaataatataattgacctattagttt
9726729

Query: 5237 agttggtagagc 5249
 |||| | |||||
Sbjct: 9726728 agttgattagagc 9726716

Score = 89.7 bits (45), Expect = 8e-15
Identities = 135/165 (81%)
Strand = Plus / Plus

Query: 7057 gactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgccttttt
 7116
 ||||| ||| ||| ||||| | |||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 38147282 gactaggaactgtgtgtcgcgtcaatcaaactcaagaacattgtgagtggtcgccttttt
 38147341

Query: 7117 ctgtatgtctttcatagccttgtttaataacttttgtataaacttcaccaaataatgaatcac
 7176
 || ||||| || ||||| ||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 38147342 aagtgcgtcttcgatgaccttgcttagtactttcgtataaacttgggtcaaataatgaagcat
 38147401

Query: 7177 tcttgcgacttctctccccctttggttgaacaatgcattacacct 7221
 ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 38147402 tcttgtggcttctctccctctttcgttgaacaatgcattacacct 38147446

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 110/132 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaataacattaga
 5176
 ||||| ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 6252121 aaaattaattttcacaaaatttattatttaaatttacatacgcatataacattaaa
 6252180

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 || ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 6252181 aaatttagtatttatataacaacattatttattttatgacataattagttatattagctc
 6252240

Query: 5237 agttgggtagag 5248
 | ||||| |||||
 Sbjct: 6252241 aattgggtagag 6252252

Score = 87.7 bits (44), Expect = 3e-14
 Identities = 104/125 (83%), Gaps = 8/125 (6%)
 Strand = Plus / Plus

Query: 5121 ttaattgttacaaaatttattatctaaatttgcacataaataacattagaaatt
 5180
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 8682103 ttaattgtcacaaaattaattatTTTaaatttacatgtgcattaaatatacattaaaaagt
8682162

Query: 5181 ttagtggttatatttagtgaaattaattatTTTataacataattgatgtattagttcagtt
5240

||||||| | ||| ||||||||||||||||| |||||||||
Sbjct: 8682163 ttagtggttatgt-----attatTTTatTTTataacataattgacctattagttcagtt
8682214

Query: 5241 ggtta 5245
|||||
Sbjct: 8682215 ggtta 8682219

Score = 87.7 bits (44), Expect = 3e-14
Identities = 83/96 (86%)
Strand = Plus / Plus

Query: 6716 ttggatatccattttggtgtgtatacgagaggagacatgacaacctttagaatttctttt
6775

||||||||||||| | ||||||| ||||||| | | ||||||||||| |||
Sbjct: 15665945 ttggatatccatttcgatgtgtatatgagaggagagaggatgacctttagaattttttt
1566604

Query: 6776 catttttgggttggggcaaattccttggttgtagaca 6811
| | | ||||| ||||||||||||||| |||||
Sbjct: 15666005 cttctctgggttagggcaaattccttggttgtagaca 15666040

Score = 87.7 bits (44), Expect = 3e-14
Identities = 83/96 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

||||||||||||||||||||||| ||| | | |||||||||||||
Sbjct: 39182950 aaaattaattgttacaaaatttattatgtaaacttatatttgtaataaatatacattaga
3918309

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTT 5212
||||||||||||| | | | |||||||||
Sbjct: 39183010 aatttttagtggttatataatcacgttaattatTTT 39183045

Score = 85.7 bits (43), Expect = 1e-13

Identities = 170/211 (80%), Gaps = 1/211 (0%)
 Strand = Plus / Minus

Query: 5133 aaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtatat
 5192

|||||
 Sbjct: 1370103 aaatttattatgtaaatttacatgtacattaaatataaaattttaaatggtatat
 1370044

Query: 5193 ttagtgaaattaattattttataacataattgatgtattagttcagttgggttagagcatt
 5252

||| | | | |
 Sbjct: 1370043 atagcaatactattta-tttataacataatgtgtctattagtttagttgggttgagtatt
 1369985

Query: 5253 atgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaattttaaattaa
 5312

| |||||
 Sbjct: 1369984 ttattaataatgcgggtgacacaagtttgattcttgattgaactattaattttaaattaa
 1369925

Query: 5313 tttgtaaaatatatttttgaaaaaaaaatta 5343

| |||||
 Sbjct: 1369924 atcgtaaatttatatttttggaaaaaaaaatta 1369894

Score = 85.7 bits (43), Expect = 1e-13
 Identities = 110/131 (83%), Gaps = 1/131 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176

|||||
 Sbjct: 6606944 aaaattaattatcacaaaatttattatgtatatattacatgtatatataatataatataaa
 6606885

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 6606884 aatttaa-tattatataatataacatgaattattttataacattattgatctattagctc
 6606826

Query: 5237 agttgggttaga 5247

|||||
 Sbjct: 6606825 agttgggttaga 6606815

Score = 83.8 bits (42), Expect = 5e-13
Identities = 51/54 (94%)
Strand = Plus / Plus

Query: 5013 aataattttaataaattatatttatgaataaataaaaagggttttattcttaaattt 5066
|||||
Sbjct: 37260698 aataattttaataaattatatttgataaataaataaaaagattttattcttaaattt
37260751

Score = 81.8 bits (41), Expect = 2e-12
Identities = 92/109 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 905479 aaaattaattatcataaaaatttattatctaaatttgcatgtgcattaaatatatgataga
905420

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
|| |||| | ||||| || | | |||||
Sbjct: 905419 aactttattattatatataataatattaattattttataatataattga 905371

Score = 81.8 bits (41), Expect = 2e-12
Identities = 44/45 (97%)
Strand = Plus / Plus

Query: 5293 gatcattaatttttaaattaatttgtaaaatatatttttgaaaaaa 5337
|||||
Sbjct: 17139556 gatcattaatttttaaattaatttgtaaaacatatatttttgaaaaaa 17139600

Score = 81.8 bits (41), Expect = 2e-12
Identities = 68/77 (88%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattatatttatgaataaataaaaagggttttattcttaaatttgcttgag
5073
|||||
Sbjct: 33991831 ataattttaataaactatatttatgagtaaaataaaatgtctcattcttaaatttactttag
33991890

Query: 5074 ccctctcaagtccttga 5090
|||||||
Sbjct: 33991891 acctctcaagtcattga 33991907

Score = 81.8 bits (41), Expect = 2e-12
Identities = 131/161 (81%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737
|||||||
Sbjct: 37876289 atgcgacacatgaaacatcactttggttgacacgattctgagatattaattttggagtgg
37876230

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797
|| |||||
Sbjct: 37876229 atgcgagaagagacaaaaccacccttagaatttcttttttggttgggtcaaggcaaatt
37876170

Query: 6798 cttggcttggtgacatggtgaccaacatgcttcattgcacaa 6838
|||||
Sbjct: 37876169 attggctcatgacatggtgaccaatacgcttcgttacacaa 37876129

Score = 81.8 bits (41), Expect = 2e-12
Identities = 128/157 (81%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176
|||||||
Sbjct: 41976818 aaaattaattgtccaaaatttagtatttaaatttatatgcgcattaaatatacatataa
41976759

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||||
Sbjct: 41976758 aatttttagtggttatgtatagcaacattatttattttatgatgtaattggcttattagctc
41976699

Query: 5237 agttggtagagcattatggttaataatgtgaaagtca 5273
|||||
Sbjct: 41976698 agttgattacaacggttgctgaataatctgaaagtca 41976662

Score = 79.8 bits (40), Expect = 7e-12
Identities = 100/118 (84%), Gaps = 4/118 (3%)
Strand = Plus / Plus

Query: 4770 tttttattgataccgtaa-taataattaataagtaataatttttttatcaatatcatagct
4828 |||||
Sbjct: 8129511 tttttattggtatcgtaagtaacaattaatgagtaacaactctttaccaatatcataatt
8129570

```
Query: 4829      ttgttttagaaaaaaagagatttaataattaatagctaaagaaatccaaaagttttctc
4886            |||||
Sbjct: 8129571  ttattttaaaaaaaaa--gatttaataattaatagctaaaaaaatctaaaagttttctc
8129625
```

Score = 79.8 bits (40), Expect = 7e-12
Identities = 70/80 (87%)
Strand = Plus / Plus

```
Query: 7677      atagaaaacatagtaattattttcctcatcatcttgcagcatacatgccctgtactgaaa
7736            |||
Sbjct: 15666708 atagaaaacatagtaattatgtcctcatcattttgtagtatgcatgccttgtaataaaaa
15666767
```

```
Query:  7737      caatcaccaacaaatgatac  7756
          |||| | ||||| ||||| ||
Sbjct: 15666768 taatccccaacaaatgatac 15666787
```

Score = 79.8 bits (40), Expect = 7e-12
Identities = 109/132 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaaattttattatctaaatttgcatgcacaataaaatatacattaga
5176
|||||
Sbjct: 17698602 aaaattaattattacaaaaattttattatgtaaatgtatatgtatatattaaatataaaattaaa
17698543

[illegible]

[illegible]

Sbjct: 16507132 taaatatacattagaaatatttattattatatataataaaaattacttattttataacataa
16507191

Query: 5222 ttgatgtatta 5232
|| || |||||
Sbjct: 16507192 ttaatctatta 16507202

Score = 77.8 bits (39), Expect = 3e-11
Identities = 69/79 (87%)
Strand = Plus / Minus

Query: 5015 taattttaataaattattttatgaataaataaaaagggttttattcttaaatttgcttgagc
5074
|||||
Sbjct: 40331944 taattttaataaactattttatgagtaaataaaaagtctcattcttaaatttgcttttagg
40331885

Query: 5075 cctctcaagtccttgagcc 5093
|| |||||
Sbjct: 40331884 tctttcaagtccttgagcc 40331866

Score = 75.8 bits (38), Expect = 1e-10
Identities = 107/130 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
|||||
Sbjct: 3102724 aaaattaattgtcacgaaacttattattcaaatttacaagcgcatataacatttaa
3102665

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 3102664 aatttttagtggttatataacaacattatttattttataactataattgctctattagctc
3102605

Query: 5237 agttgggttag 5246
| |||||
Sbjct: 3102604 aattgggttag 3102595

Score = 75.8 bits (38), Expect = 1e-10

Identities = 65/74 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| ||||| ||||| | ||||| |||||
Sbjct: 4212061 aaaattaattgtcacaaaatttattatttaaatttacatgtgtattaaatatatattaga
4212120

Query: 5177 aatttttagtggttat 5190
 || ||||| ||
Sbjct: 4212121 aagttagtggttat 4212134

Score = 75.8 bits (38), Expect = 1e-10
Identities = 68/78 (87%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattatatttatgaataaataaaagggtttattcttaaatttgcttga
5072
 ||||| ||||| ||||| | ||||| ||||| |
Sbjct: 5006345 aataattttaataaactatatttatgagtaaataaaatgtctcattcttaaagttgcttta
5006286

Query: 5073 gccctctcaagtccttga 5090
 | ||||| |||||
Sbjct: 5006285 ggtctctcaagtccttga 5006268

Score = 75.8 bits (38), Expect = 1e-10
Identities = 65/74 (87%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 ||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 7116427 taaatatacatttaaaaaatttagtatttatatagtgatattaattattttataatataa
7116368

Query: 5222 ttgatgtattagtt 5235
 || || ||||| |||||
Sbjct: 7116367 ttaatttattagtt 7116354

Score = 75.8 bits (38), Expect = 1e-10

Query: 5074 ccctctcaagtccttgagccgcccc 5098

|| |||||
Sbjct: 8129794 gtctttcaagtccttgagtcgcccc 8129818

Score = 73.8 bits (37), Expect = 5e-10
Identities = 59/65 (90%), Gaps = 1/65 (1%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5175

|||||
Sbjct: 12606890 aaaaattaattgtcacaaaatttattatgtaaatttacatgtac-attaatatacatag
12606832

Query: 5176 aaatt 5180
|||||
Sbjct: 12606831 aaatt 12606827

Score = 71.9 bits (36), Expect = 2e-09
Identities = 109/132 (82%), Gaps = 1/132 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacataga
5176

|||||
Sbjct: 13428 aaaattaattattataaaaatttattatgtaaatttatatgtgtattaaatatattaaa
13369

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||
Sbjct: 13368 aattgtagtattatatataatgatatt-attattttttaacgtaattgatataattagttt
13310

Query: 5237 agttgggtagag 5248
| |||
Sbjct: 13309 aattgattagag 13298

Score = 71.9 bits (36), Expect = 2e-09
Identities = 66/76 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 8551545 aaaattaattatcacaaaatttattatttaaatttatatgcgcactaaatatatattaa
 8551486

Query: 5177 aatttttagtggttatat 5192
 |||||
 Sbjct: 8551485 aatttttagtatttatat 8551470

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 91/108 (84%), Gaps = 1/108 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 12606818 aaaattaattatcataaaaatttattatgttaaatttacatgcgtattaaatatgcattaaa
 12606759

Query: 5177 aatttttagtggttatatttttagtgaaattaattattttataacataattg 5224
 |||||
 Sbjct: 12606758 aatttttagtatttatataa-aatatattaattattttataaatataattg 12606712

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 57/64 (89%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||||
 Sbjct: 36034216 aaaattaattgttacaaaatttattttataaaatttacatgtgcattaaatatatattaga
 36034275

Query: 5177 aatt 5180
 |||
 Sbjct: 36034276 aatt 36034279

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 42/44 (95%)
 Strand = Plus / Plus

Query: 5202 ttaattatTTTTataacataattgatgtattagttcagttggTTA 5245
 ||||||||||| ||||||||||| ||||||||||| |||||||
Sbjct: 39300862 ttaattatTTTTtaacataattgatctattagttcagttggTTA 39300905

Score = 69.9 bits (35), Expect = 7e-09
Identities = 94/111 (84%), Gaps = 2/111 (1%)
Strand = Plus / Minus

Query: 4758 taactgttaatctTTTTattgataccgTA-ataataattaataagtaataatTTTTtATC
4816
 ||||||||||| ||||||| ||| ||||||| || || || || || || || || || ||
Sbjct: 5006464 taactgttaatctTTTTattggtaccgtagataaaaaattaatgagcaacaactcttcact
5006405

Query: 4817 aatatcatagctttgTTtagaaaaaaagagatttaataattaatagctaaa 4867
 ||||| |||| | ||||||| ||||||| ||| |||| | ||||||| |||||
Sbjct: 5006404 aatattatagttttgTTtag-aaaaaagaaattaatagttaatagctaaa 5006355

Score = 67.9 bits (34), Expect = 3e-08
Identities = 92/110 (83%), Gaps = 1/110 (0%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacatta
5174
 ||||||||||| | | |||||| | |||||| | |||||| | || | | | ||||||| |||||
Sbjct: 2044513 aaaaaattaattatcataaaatatattatttaaatttacatacatattaaatatacatta
2044454

Query: 5175 gaaa-ttttagtgTTtatatttagtgaaattaatttttataacataatt 5223
 |||| | |||| | |||||| | | | |||| | ||||||| ||||||| |||||
Sbjct: 2044453 gaaatttttaattattatatataacaatattattttattttataacataatt 2044404

Score = 67.9 bits (34), Expect = 3e-08
Identities = 58/66 (87%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtgTTA
5189
 ||||||||||| ||||||| ||| ||| ||||||| || | ||||||| |||||
Sbjct: 5299778 acaaaatttattatataaaatttacatatacattaaatataaatcagaaattttggtgTTA
5299719

Query: 5190 tattta 5195
 |||||
Sbjct: 5299718 tattta 5299713

Score = 67.9 bits (34), Expect = 3e-08
Identities = 61/70 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatacacaataataacattaga
5176
 ||||| ||||| ||||| ||||| || || || |||||
Sbjct: 13959533 aaaattaattgccacaaaatttattatttaaatttacatgcgcattagatatgcattaga
13959592

Query: 5177 aatttttagtg 5186
 ||| |||||
Sbjct: 13959593 aatgttagtg 13959602

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/54 (90%)
Strand = Plus / Plus

Query: 6723 tccatttttggtgtgtatacgagaggagacatgacaacctttagaattttcttttc 6776
 ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18686110 tccatttttggtgtggatacgagaggagacaagacaattcttagaattttcttttc
18686163

Score = 67.9 bits (34), Expect = 3e-08
Identities = 34/34 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacat 1676
 ||||| ||||| ||||| ||||| |||||
Sbjct: 34684430 aacgccttatcccactaggtggggtcggctacat 34684397

Score = 67.9 bits (34), Expect = 3e-08
Identities = 49/54 (90%)
Strand = Plus / Plus

Query: 6580 aaaatattttaatttgaaataatacaacaaaaattttaaaatacaacaatatg 6633

|||||
Sbjct: 38146792 aaaatatttaaatttgaattaatacaacaaaattttacaaatacgaacaatatg
38146845

Score = 67.9 bits (34), Expect = 3e-08
Identities = 91/109 (83%), Gaps = 2/109 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 38459595 aaaattaattgtcacaaaatttattatttaaatttatatgtgtattaaatatatattaa
38459536

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
|||||
Sbjct: 38459535 aattttaatggttatatatatt--aattatttattttttaataataattga 38459489

Score = 67.9 bits (34), Expect = 3e-08
Identities = 88/106 (83%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 39300679 aaaattaattggttacaaaattgattatgtaaacttatatatgtattaaatatatattaga
39300620

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataat 5222
|||||
Sbjct: 39300619 aatttttagtggttatatatattgatgttaactttttttaacataat 39300574

Score = 65.9 bits (33), Expect = 1e-07
Identities = 48/53 (90%)
Strand = Plus / Plus

Query: 5014 ataattttaataaattattttatgaataaataaaaagggttttattcttaaattt 5066
|||||
Sbjct: 6017132 ataattttaataaattatttcataaataaataaaatatgttattcttaaattt 6017184

Score = 65.9 bits (33), Expect = 1e-07
Identities = 36/37 (97%)
Strand = Plus / Plus

Score = 65.9 bits (33), Expect = 1e-07
Identities = 78/92 (84%), Gaps = 2/92 (2%)
Strand = Plus / Plus

```
Query: 5192      tttagtgaataattatattttataacataatt 5223
                |||||
Sbjct: 16958888 tataataatattatattttataacataatt 16958919
```

Score = 65.9 bits (33), Expect = 1e-07
Identities = 51/57 (89%)
Strand = Plus / Plus

```
Query: 5014      ataattttaataaattattttatgaataaaataaaagggtttttattcttaaatttgctt
5070            |||||||
Sbjct: 42064019 ataattttaataaaactattttatgagtaaataaaagatatcattgttaaatttgctt
42064075
```

Score = 65.9 bits (33), Expect = 1e-07
Identities = 60/69 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 42804141 aaaattaattgttacgaaatttattatacaaatttatatgtgtattaaatatacattaga
42804200

Query: 5177 aatttttagt 5185
 |||||
Sbjct: 42804201 aatttttagt 42804209

Score = 63.9 bits (32), Expect = 4e-07
Identities = 62/72 (86%)
Strand = Plus / Plus

Query: 5154 atgcacaataaatatacattagaaatttttagtggttatatttagtgaaattaattatttta
5213
 |||||
Sbjct: 3694882 atgcacattaaatatacattaaaaattttaattattatatataataactattattttatttta
3694941

Query: 5214 taacataattga 5225
 |||||
Sbjct: 3694942 taacataattga 3694953

Score = 63.9 bits (32), Expect = 4e-07
Identities = 48/52 (92%), Gaps = 1/52 (1%)
Strand = Plus / Minus

Query: 5300 aatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 38440875 aatttttaaattaattcataaaatatatttttgaaaaaataatt-taaaaaaa 38440825

Score = 62.0 bits (31), Expect = 2e-06
Identities = 58/67 (86%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176

|||||
Sbjct: 6442790 aaaattaattgacacaaaatttattatttaaatttactcgcgcattaattatacattaga
6442849

Query: 5177 aatttta 5183
|||||
Sbjct: 6442850 aatttta 6442856

Score = 62.0 bits (31), Expect = 2e-06
Identities = 40/43 (93%)
Strand = Plus / Minus

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaa 5338
|||||
Sbjct: 10257559 cattaatttttaaattaatcgtaaattatatatttttgaaaaaaa 10257517

Score = 62.0 bits (31), Expect = 2e-06
Identities = 61/71 (85%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
|||||
Sbjct: 17139431 taaatatatattagaaattttattggttatataacgatattaattatttcataatataa
17139490

Query: 5222 ttgatgtatta 5232
|| || |||||
Sbjct: 17139491 tttatctatta 17139501

Score = 62.0 bits (31), Expect = 2e-06
Identities = 37/39 (94%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggtacatggatcaac 1684
|||||
Sbjct: 39414430 gccttatcccattaggtggggctcgactacatggatcaac 39414468

Score = 62.0 bits (31), Expect = 2e-06
Identities = 88/107 (82%)

Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| ||||| ||||| ||||| || || ||||| ||
Sbjct: 44032443 aaaattaattattacaaaatttggtattttaatttacataagcattaaatatacatataa
44032502

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataatt 5223
 || ||||| || || | ||||| ||||| ||||| |||||
Sbjct: 44032503 aaaattagttattaaatataacaatattattttattttataacataatt 44032549

Score = 60.0 bits (30), Expect = 7e-06
Identities = 66/78 (84%)
Strand = Plus / Minus

Query: 5115 aaaaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacat
5174
 ||||| ||||| ||||| ||||| || || | ||||| |||||
Sbjct: 3981239 aaaaaattaataattacaaaatgtattatgtaaacttatatgtgtattaaatatgcatta
3981180

Query: 5175 gaaattttagtggttatat 5192
 ||||| ||||| ||||| |||||
Sbjct: 3981179 gaaattttagtggttatat 3981162

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 5294 atcatthaatttttaaattaatttgtaaaatatatttttgaaaa 5335
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6252298 atcatthaatttttaaattaatttcgtaacacatatatttttgaaaa 6252339

Score = 60.0 bits (30), Expect = 7e-06
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 5297 attaatthtttaaattaatttgtaaaatatatttttgaaaaaaaa 5338
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 6751622 attaatthtttaaattaatctataaaatatattttttaaaaaaaaa 6751663

Score = 60.0 bits (30), Expect = 7e-06
Identities = 42/46 (91%)
Strand = Plus / Minus

Query: 1215 tttggctaagatcaagtgtagtagtctgttcttatcagtttaatatc 1260
 ||||| ||| ||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9433994 tttggcttagaacaatgtaatatctgttcttatcagtttaatatc 9433949

Score = 60.0 bits (30), Expect = 7e-06
Identities = 55/62 (88%), Gaps = 1/62 (1%)
Strand = Plus / Minus

Query: 5289 cttggatcattaattttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaa
5348
 ||||| | ||||| ||||| | ||| ||||| ||||| ||||| |||||
Sbjct: 17019688 cttggattaataattttaaattaatcataaattatatattttgaaaaaaaa-tataaaa
17019630

Query: 5349 aa 5350
 ||
Sbjct: 17019629 aa 17019628

Score = 60.0 bits (30), Expect = 7e-06
Identities = 54/62 (87%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaaatttttagtggttatatttagtgaaattaatttttataacataa
5221
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 17698741 taaatatacattaaaaaatttagtattatatataacgacattaatttttttaacataa
17698800

Query: 5222 tt 5223
 ||
Sbjct: 17698801 tt 17698802

Score = 60.0 bits (30), Expect = 7e-06
Identities = 51/58 (87%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgt
6735
 ||||| ||||| ||||| |||| ||| ||||| ||||| |||
Sbjct: 27318978 atgcgacacacagaacatcactttggttgacctggttctcggatatccatttaggtgt
27318921

Score = 60.0 bits (30), Expect = 7e-06
Identities = 30/30 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggct 1672
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40673727 aacgccttatccactaggtggggtcggct 40673698

Score = 58.0 bits (29), Expect = 3e-05
Identities = 41/45 (91%)
Strand = Plus / Plus

Query: 6417 ttaaagagttgaaatcctttgtatttttattttatttgattatta 6461
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 15665642 tttaaaagttgaaattcctttgcattttcattttatttgattatta 15665686

Score = 58.0 bits (29), Expect = 3e-05
Identities = 89/109 (81%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||| ||| ||||| ||||| ||||| ||| ||| ||||| |||||
Sbjct: 15982419 aaaattaattatcataaaatttattattaaaatttatatgtgcattaaatatgcattaga
15982360

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattga 5225
 |||| |||| ||| ||| ||| ||| ||||| ||||| |||||
Sbjct: 15982359 aattgtagtgatgtataataacattattttattttataacctaattga 15982311

Score = 58.0 bits (29), Expect = 3e-05
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||

Sbjct: 39300773 aaaattaattggttacaaaatttattatgttaaacttatatg--tattaaatttacattaaa
39300830

Query: 5177 aatttttagtggttatat 5192
|||||
Sbjct: 39300831 aatttttagtgatatat 39300846

Score = 56.0 bits (28), Expect = 1e-04
Identities = 46/52 (88%)
Strand = Plus / Plus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggttagagcatt 5252
|||||
Sbjct: 4957563 attacttattTTTtataacataattgatccattagtttagttggttaaagcatt 4957614

Score = 56.0 bits (28), Expect = 1e-04
Identities = 64/76 (84%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
|||||
Sbjct: 11647298 aaaattaattattataaaaatttattatataaaacttatatatatttaaatacattaga
11647357

Query: 5177 aatttttagtggttatat 5192
|||||
Sbjct: 11647358 aattttattattatat 11647373

Score = 56.0 bits (28), Expect = 1e-04
Identities = 28/28 (100%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggttacaaaatttattat 5143
|||||
Sbjct: 21619044 aaaaattaattggttacaaaatttattat 21619071

Score = 56.0 bits (28), Expect = 1e-04
Identities = 34/36 (94%)
Strand = Plus / Plus

Query: 5294 atcattaatttttaaattaatttgtaaaatatatttt 5329
 |||||
Sbjct: 39047150 atcattaatttttaaattattttataaaatatatttt 39047185

Score = 56.0 bits (28), Expect = 1e-04
Identities = 31/32 (96%)
Strand = Plus / Minus

Query: 5120 attaattggtacaaaatttattatctaaattt 5151
 |||||
Sbjct: 44021066 attaattggtacaaaatttattatgtaaattt 44021035

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaattt 5151
 |||||
Sbjct: 1679649 aaaattaattgttataaaatttattatgtaaattt 1679615

Score = 54.0 bits (27), Expect = 4e-04
Identities = 54/63 (85%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcatgcacaataaatatacattagaaatttttagtgta
5189
 |||||
Sbjct: 5359247 acaaaatttattatgtaaatttacatgtatattaaatataaaataaaaaattttaatgta
5359306

Query: 5190 tat 5192
 |||
Sbjct: 5359307 tat 5359309

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttt 5329
 |||||
Sbjct: 6751537 tcattaatttttaaattaatttcgtaaaacatatatttt 6751503

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatatttt 5329
 |||||
Sbjct: 11647180 tcattaatttttaaattatttcgtaaaatatatttt 11647146

Score = 54.0 bits (27), Expect = 4e-04
Identities = 33/35 (94%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaattt 5151
 |||||
Sbjct: 19927841 aaaattaattattacaaaatttattatataaaattt 19927875

Score = 54.0 bits (27), Expect = 4e-04
Identities = 36/39 (92%)
Strand = Plus / Minus

Query: 7293 gtgtcccatcgccagccaccatcccatgcgagagtcca 7331
 |||||
Sbjct: 27301816 gtgtcccatcgtcagccactatcccatgtgagagtcca 27301778

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Minus

Query: 7308 gccaccatcccatgcgagagtccactttttct 7338
 |||||
Sbjct: 37875707 gccaccatcccatgcgagagtccactttttct 37875677

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)

Strand = Plus / Minus

Query: 6516 acaagttgacttgaactaaaatatttaaatt 6546
 |||||
Sbjct: 42182763 acaagttgaattgaactaaaatatttaaatt 42182733

Score = 54.0 bits (27), Expect = 4e-04
Identities = 51/59 (86%)
Strand = Plus / Minus

Query: 6580 aaaatatttaaatttgaaataatacaacaaaaattttaaaatacaaacaatatggcata
6638
 |||||
Sbjct: 43413556 aaaatatttaaatttgaaataatacaataacattttacaaataaaaacaatatggcata
43413498

Score = 54.0 bits (27), Expect = 4e-04
Identities = 30/31 (96%)
Strand = Plus / Plus

Query: 5291 tggatcattaatttttaaattaatttgtaaaa 5321
 |||||
Sbjct: 43688525 tggatcattaatttttaaattaattttataaaa 43688555

Score = 52.0 bits (26), Expect = 0.002
Identities = 65/78 (83%)
Strand = Plus / Plus

Query: 5163 aaatatacattagaaaatttttagtggttatatttagtgaaattaattattttataacataat
5222
 |||||
Sbjct: 1679817 aaatatacattataaaatttttaattatattatataataataattattttttaacataat
1679876

Query: 5223 tgatgtattagttcagtt 5240
 |||
Sbjct: 1679877 taacttattagtttagtt 1679894

Score = 52.0 bits (26), Expect = 0.002
Identities = 53/62 (85%)

```
Query: 5297      attaatnttttaaattaatttgtaaaatatattttt 5330
               |||||
Sbjct: 38459462 attaatnttttaaattaattcgtaaaacatatattttt 38459429
```

Score = 52.0 bits (26), Expect = 0.002
Identities = 50/58 (86%)
Strand = Plus / Plus

Query: 5166 tatacattagaaatTTtagtgTTatatttagtgaaattaattattttataacataatt
5223
 ||||| ||||| | |||| | | | | ||||| ||||| |||||
Sbjct: 42011693 tatacattaaaaatTTtaattatatataataataattaattatttttaacataatt
42011750

Score = 52.0 bits (26), Expect = 0.002
Identities = 29/30 (96%)
Strand = Plus / Plus

Query: 3851 gatagcaattgtaggaagtgggttatattgg 3880
 ||||| ||||| ||||| ||||| |||||
Sbjct: 42224891 gatagcaattgtaggaagtggatatattgg 42224920

Score = 52.0 bits (26), Expect = 0.002
Identities = 32/34 (94%)
Strand = Plus / Minus

Query: 1647 ccttatccactaggtggggtcggctacatggat 1680
 ||||| ||||| ||||| ||||| |||||
Sbjct: 42671175 ccttatcccattaggtgaggtcggctacatggat 42671142

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Minus

Query: 1650 tatccactaggtggggtcggctacatggatca 1682
 ||||| ||||| ||||| ||||| |||||
Sbjct: 1461329 tatccactaggtgaggtcagctacatggatca 1461297

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Plus

Query: 5323 atatTTTTgaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||||| |||||
Sbjct: 4212164 atatTTTTgaaaaaaaaattataaaaaaa 4212192

Score = 50.1 bits (25), Expect = 0.007
Identities = 49/57 (85%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacat 5172
 ||||||||||| | ||||||||||||||| ||||| || | |||||||||||
Sbjct: 7685915 aaaaattaattatcacaaaatttattatataaaatttatatgtgcattaaatatacat
7685971

Score = 50.1 bits (25), Expect = 0.007
Identities = 105/129 (81%), Gaps = 2/129 (1%)
Strand = Plus / Plus

Query: 6305 tttttttgttattaattgtctatatatttgtgttctgttttaaattgaaaacaatattatttt
6364
 ||||| |||||||| | ||||||||| || | ||||||||| ||||| |||||||||||
Sbjct: 15665276 tttttgtgttatttagtgatctatatatttatgtcttttttaaattaaaaataatattatttt
15665335

Query: 6365 tcatatggttgtaattcttaatttcttatgcataattttatgttttatcatttttt-aaga
6423
 ||||| |||||| | | ||| || ||||||||||| ||||||||| ||||||| |||||
Sbjct: 15665336 gcataagttggt-gtcaattttttttttgcataatttttgttttattattttttgaaga
15665394

Query: 6424 gttgaaatc 6432
 |||||||||
Sbjct: 15665395 gttgaaatc 15665403

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggt 1667
 |||||||||||||||||||||
Sbjct: 17172866 aacgccttatcccactaggtggggt 17172842

Score = 50.1 bits (25), Expect = 0.007
Identities = 70/85 (82%)
Strand = Plus / Plus

Query: 6912 tcatggtgagcatgcttataaacaacaacatgagaacaaaacatgtgcattttttgaaat
6971
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18686303 tcatggttagcatgcttacaagcaacaacatgagaatatggcatgtgcaattttctagaat
18686362

Query: 6972 ttgtcacagtcacactacctttcat 6996
 ||| ||| ||||| ||||| |||||
Sbjct: 18686363 ttggcacattcacactgtctttcat 18686387

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 5276 agttcaattcttacttggatcattaatttttaaattaa 5312
 |||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40585988 agttgaatccttacttggaccattaatttttaaattaa 40586024

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatgga 1679
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 44476949 aacgccttatcccattaagtgggggtcgactacatgga 44476985

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3981293 aaaattaattgtttcaaaaatttattatataaa 3981324

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 5116 aaaaattaattggtacaaaatttattat 5143
|||||||
Sbjct: 4957490 aaaaattaattgtcacaaaatttattat 4957517

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 5201 attaattatTTTtataacataattg 5224
|||||||
Sbjct: 9049498 attaattatTTTtataacataattg 9049475

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 6044 tttttatccaaataataaaaaaaaaatta 6071
||||
Sbjct: 15677523 ttttcatccaaataataaaaaaaaaatta 15677496

Score = 48.1 bits (24), Expect = 0.026
Identities = 48/56 (85%)
Strand = Plus / Plus

Query: 5294 atcattaatttttaaattaatttgtaaaatatatTTTTgaaaaaaaaattataaaaa 5349
|||||||
Sbjct: 16958967 atcattaatttttaaattaattcatcacaaatatTTTTcaaaaaaaatttaaaaaa
16959022

Score = 48.1 bits (24), Expect = 0.026
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 5294 atcattaatttttaaattaatttgtaaaa 5321
|||||||
Sbjct: 21619220 atcattaatttttaaattatttttgtaaaa 21619247

Score = 48.1 bits (24), Expect = 0.026
Identities = 36/40 (90%)
Strand = Plus / Plus

Query: 5202 ttaattatTTTtataacataattgatgtattagttcagttg 5241
 ||||| ||| ||||| || ||||| |||
Sbjct: 39047059 ttaattatTTTtataataattaatctattagttcagttg 39047098

Score = 48.1 bits (24), Expect = 0.026
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 1647 ccttatccactaggtggggtcggctacatggatca 1682
 ||||| ||||| ||||| |||||
Sbjct: 41447157 ccttatccactaggtgaggtcgactacatagatca 41447192

Score = 48.1 bits (24), Expect = 0.026
Identities = 63/76 (82%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtgTTtatTTtagtgaaattaattatTTTtataacataa
5221
 ||||| |||| |||| || ||||| || || || ||||| ||||| |||||
Sbjct: 43410634 taaatataTatTaaaaatcataatgTTtatataTaatgatattaattatTTTtcaacataa
43410693

Query: 5222 ttgatgtattagttca 5237
 || || ||||| |||||
Sbjct: 43410694 ttaatttatttaattca 43410709

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatTTtattatctaaattt 5151
 ||||| ||||| ||||| |||||
Sbjct: 5025765 aaaattaattgtcacaaaactTattatgtaaattt 5025799

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaca 5570
 |||||||
Sbjct: 23838513 tttttttttaaaaaaaaaaaaaaca 23838491

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaaac 5569
 |||||||
Sbjct: 40277988 cttttttttaaaaaaaaaaaaaaac 40278010

Score = 46.1 bits (23), Expect = 0.10
Identities = 53/63 (84%)
Strand = Plus / Minus

Query: 5130 acaaaatttattatctaaatttgcacataaataacattagaaatttttagtggtta
5189
 ||||||| ||||| || | ||| ||||| |||| | ||||| ||||
Sbjct: 42886213 acaaaatttattatataaaatttacacgtacattaaataaaatttttaataatta
42886154

Query: 5190 tat 5192
 |||
Sbjct: 42886153 tat 42886151

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 44307517 actttttttttaaaaaaaaaaaaaa 44307539

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5568
 |||||||

Sbjct: 7964235 ctttttttttaaaaaaaaaaaaaa 7964256

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5297 attaatttttaaattaatttgta 5318
 |||||
Sbjct: 9726667 attaatttttaaattaatttgta 9726646

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 6281 tttttaaattgtttgtatttttat 6306
 |||||
Sbjct: 9727499 tttttaaattgtttgtatttttat 9727524

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 5333 aaaaaaaaaattataaaaaaatgaatca 5358
 |||||
Sbjct: 11720587 aaaaaaaaaattataaaaaataaatca 11720612

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
 |||||
Sbjct: 14765898 ttttttttaaaaaaaaaaaaaaac 14765919

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaacaagta 5574
 |||||
Sbjct: 15974408 aacttttttttataaaaaaaaaaaaaaagta 15974379

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5324 tatttttgaaaaaaaaaattata 5345
 |||||
Sbjct: 17261872 tatttttgaaaaaaaaaattata 17261893

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 35179661 ctttttttttaaaaaaaaaaaaaa 35179682

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5331 gaaaaaaaaaattataaaaaaat 5352
 |||||
Sbjct: 41202505 gaaaaaaaaaattataaaaaaat 41202484

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6398 attttatgttttatcatttttt 6419
 |||||
Sbjct: 41498204 attttatgttttatcatttttt 41498183

Score = 44.1 bits (22), Expect = 0.41

Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatatttaa 6512
|||||||
Sbjct: 43470713 aaattaaaaaatatatatttaa 43470692

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 43572745 ctttttttttaaaaaaaaaaaaaa 43572766

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaatg 5353
|||||||
Sbjct: 44050798 aaaaaaaaaattataaaaaaatg 44050819

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 2989861 ttttttttaaaaaaaaaaaaaa 2989841

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5304 ttaaattaatttgtaaaatatattttgaaaaa 5336
||||||| ||||| || |||||
Sbjct: 3219047 ttaaattaatttgtaaaacatatcttttaaaaa 3219015

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||
Sbjct: 3659801 tttttttttaaaaaaaaaaaaaa 3659781

Score = 42.1 bits (21), Expect = 1.6
Identities = 31/33 (93%), Gaps = 1/33 (3%)
Strand = Plus / Plus

Query: 5324 tattttttgaaaaaaaaattataaaaaaatgaat 5356
 ||||||||||||| ||||||||| |||||||||
Sbjct: 4278273 tatttttgaaaaa-aaaattatataaaaaatgaat 4278304

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6600 aatacaacaaaaatttttaaaa 6620
 ||||||||||||||||||||
Sbjct: 5204195 aatacaacaaaaatttttaaaa 5204215

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 7397 acaaataatttttattataaaa 7417
 ||||||||||||||||||||
Sbjct: 5510672 acaaataatttttattataaaa 5510692

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||||

Sbjct: 6566577 tttttttttaaaaaaaaaaaaaa 6566557

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 6846653 tttttttttaaaaaaaaaaaaaa 6846673

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaaaaaaac 5569
|||||||
Sbjct: 7780081 aactttttttttaacaaaaaaaaaaaaaac 7780057

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 2567 ttcttttaaatttgtaaataatatatttttttctt 2599
|||||||
Sbjct: 7921886 ttctttatatattttaattaatatatttttttctt 7921918

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
|||||||
Sbjct: 8026522 tttttttttaaaaaaaaaaaaaa 8026542

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 8991131 ttttttttaaaaaaaaaaaaaa 8991111

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 6268 tttttttgttttgttttaaaa 6288
 |||||
Sbjct: 9056095 tttttttgttttgttttaaaa 9056115

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 9520665 ttttttttaaaaaaaaaaaaaa 9520685

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6296 tatttttatttttttgttat 6316
 |||||
Sbjct: 10253047 tatttttatttttttgttat 10253027

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5324 tatttttgaaaaaaaaattat 5344
 |||||
Sbjct: 10886496 tatttttgaaaaaaaaattat 10886476

Score = 42.1 bits (21), Expect = 1.6

Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5571
|||||||
Sbjct: 11378515 ctttttttttaaaaagaaaaaa 11378491

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5567
|||||||
Sbjct: 12644089 ctttttttttaaaaaaaaaaaaa 12644109

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5317 taaaatatatttttgaaaaaaaaattataaaaa 5349
||||||| ||| |||||
Sbjct: 13273195 taaaatatattttttaaaaaaaaaattataaaaa 13273163

Score = 42.1 bits (21), Expect = 1.6
Identities = 57/69 (82%)
Strand = Plus / Plus

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
||||||| || || ||||| ||||| | || |
Sbjct: 13959674 agttggtagagcgttgtgataataacctgaaagtcataggttgagtcttacttgggcc
13959733

Query: 5297 attaatttt 5305
|||||||
Sbjct: 13959734 attaatttt 13959742

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6056 taataaaaaaaaaattaattat 6076
 |||||
Sbjct: 14329916 taataaaaaaaaaattaattat 14329896

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 17860925 ttttttttaaaaaaaaaaaaaa 17860905

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 18572125 ctttttttaaaaaaaaaaaaaa 18572145

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacaag 5572
 |||||
Sbjct: 19205176 ttttttttaaaaaaaaaagaacaag 19205200

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5546 acttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 20947400 acttttttttaaaaaaaaaaaaaa 20947380

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 23838498 tttttttttaaaaaaaaaaaaaa 23838518

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 24039179 tttttttttaaaaaaaaaaaaaa 24039159

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 7736 acaatcaccaacaaatgatac 7756
 ||||||||||||||||||
Sbjct: 27290939 acaatcaccaacaaatgatac 27290919

Score = 42.1 bits (21), Expect = 1.6
Identities = 37/41 (90%), Gaps = 1/41 (2%)
Strand = Plus / Plus

Query: 6041 ttttttttatccaaataata-aaaaaaaaattaattatttac 6080
 |||||||||| || ||||| ||||||||||||||||||
Sbjct: 27660804 ttttttttatgtaattaatacaaaaaaattaattatttac 27660844

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 30316060 tttttttttaaaaaaaaaaaaaa 30316040

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 36070346 tttttttttaaaaaaaaaaaaaa 36070326
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 36315445 tttttttttaaaaaaaaaaaaaa 36315425
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 37488470 tttttttttaaaaaaaaaaaaaa 37488490
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 37989230 tttttttttaaaaaaaaaaaaaa 37989210
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
```

```
          |||||||
Sbjct: 37989215 tttttttttaaaaaaaaaaaaaa 37989235
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 5547      cttttttttaaaaaaaaaaaaaaaca 5571
                |||||||
Sbjct: 39635416 cttttttttaaaaaataaaaaaca 39635392
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||
Sbjct: 40662638 tttttttttaaaaaaaaaaaaaa 40662658
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 33/37 (89%)
Strand = Plus / Minus

```
Query: 1646      gccttatcccactaggtggggctcggctacatggatca 1682
                |||||||
Sbjct: 41500122 gccttatcccactaagtaaggctcggctacatagatca 41500086
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5547      cttttttttaaaaaaaaaaaaaa 5567
                |||||||
Sbjct: 41660270 cttttttttaaaaaaaaaaaaaa 41660250
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 41982416 ctttttttttaaaaaaaaaaaaaa 41982436

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 1284 atgatatttaaattttatTTTTTT 1304
 | | | | | | | | | | | | | | | |
Sbjct: 42960674 atgatatttaaattttatTTTTTT 42960654

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 43311217 ttttttttttaaaaaaaaaaaaaa 43311197

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5568
 | | | | | | | | | | | | | | | |
Sbjct: 44329384 ttttttttttaaaaaaaaaaaaaa 44329404

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5567
 | | | | | | | | | | | | | | | |
Sbjct: 525308 ttttttttttaaaaaaaaaaaaaa 525289

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
|||||||
Sbjct: 636859 ttttttttttgttttgtttt 636840

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5546 acttttttttaaaaaaaaaaac 5569
||||||| |||||||
Sbjct: 659524 acttttttttataaaaaaaaaaac 659547

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 tttttttaaaaaaaaaaaaaa 5568
||||||| |||||||
Sbjct: 1253839 tttttttaaaaaaaaaaaaaa 1253820

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6264 ctttttttttgttttgttt 6283
|||||||
Sbjct: 1310415 ctttttttttgttttgttt 1310434

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5327 ttttgaaaaaaaaattataa 5346
|||||||
Sbjct: 1445648 ttttgaaaaaaaaattataa 1445629

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 1668326 tttttttttaaaaaaaaaaaaaa 1668307

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5015 taattttaataaattatttt 5034
 ||||||||||||||||||
Sbjct: 1679777 taattttaataaattatttt 1679758

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2580 taaataatatTTTTTTTctt 2599
 ||||||||||||||||||
Sbjct: 2155204 taaataatatTTTTTTTctt 2155223

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 2580 taaataatatTTTTTTTctt 2599
 ||||||||||||||||||
Sbjct: 2289028 taaataatatTTTTTTTctt 2289009

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 3889 ttgtaaaaatgattttttttaaat 3912

||||| |||||||||
Sbjct: 2907536 ttgtagaaatgattttttttaaat 2907513

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5328 tttgaaaaaaaaattataaaaaaa 5351
||||||| |||||||||
Sbjct: 3323156 tttgaaaataaattataaaaaaa 3323133

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
||||||| |||||||||
Sbjct: 4119395 ttttttttaaaaaaaaaaaaaa 4119376

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
||||||| |||||||||
Sbjct: 4987029 ttttttttaaaaaaaaaaaaaa 4987048

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5289 cttggatcatthaatttttaaattaa 5312
||||| |||||||||
Sbjct: 5299652 cttggagcatthaatttttaaattaa 5299629

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6493 attaaaaaatatatatttaa 6512
|||||||
Sbjct: 6002910 attaaaaaatatatatttaa 6002929

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 5299 taatttttaaattaatttgtaaaatatattttt 5330
||||||| |||||
Sbjct: 6607282 taatttttaaattaatttcataaaacatatattttt 6607313

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6596 aaataataacaacaaaaatttttaa 6619
||||||| |||||
Sbjct: 6749190 aaataataacaacaaaaatttttttaa 6749167

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacaa 5571
||||||| |||||
Sbjct: 6846654 ttttttttaaaaaaaaaaaaaacaa 6846677

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6580 aaaatattttaaatttgaaat 6599
|||||||
Sbjct: 6994565 aaaatattttaaatttgaaat 6994584

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 7911259 ttttttttaaaaaaaaaaaaaa 7911278

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 8192469 ttttttttaaaaaaaaaaaaaa 8192488

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtg 1663
 ||||| ||||||||||||||||||
Sbjct: 8279101 acaaagccttatcccactaggtg 8279078

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5328 tttgaaaaaaaaattataaa 5347
 ||||||||||||||||||
Sbjct: 8364788 tttgaaaaaaaaattataaa 8364769

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaa 5566
 ||||||||||||||||||
Sbjct: 8401582 ctttttttttaaaaaaaaaaaaa 8401601

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5318 aaaatatatTTTTGAAAAAAAAATTATAAAAA 5349
 |||| |||||||||||||||||| ||| |||||
Sbjct: 8682013 aaaacatatTTTTGAAAAAAAAATTATAAAAA 8681982

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttat 5140
 |||||||||||| ||||||||||||
Sbjct: 9726925 aaaattaattgtcacaaaatttat 9726948

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6267 ttttttttgTTTTGTTTTAA 6286
 ||||||||||||||||||||
Sbjct: 10607670 ttttttttgTTTTGTTTTAA 10607651

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6955 tgtgcattTTTTGAAATTG 6974
 ||||||||||||||||||||
Sbjct: 12429986 tgtgcattTTTTGAAATTG 12430005

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttAAAAAAAAAAAA 5567

```
          |||||
Sbjct: 13422974 ttttttttaaaaaaaaaaaaaa 13422993
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 6217      aaaaccaagttaagaaatcggttc 6240
          |||| |
Sbjct: 15665184 aaaaacaagttaagaaatcggttc 15665207
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
          |||||
Sbjct: 17697621 ttttttttaaaaaaaaaaaaaa 17697640
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

```
Query: 6056      taataaaaaaaaaaattaattatttta 6079
          |||||
Sbjct: 18598222 taataaaaaaaaaaattatttatttta 18598199
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
          |||||
Sbjct: 19132645 ttttttttaaaaaaaaaaaaaa 19132626
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6053 aaataataaaaaaaaaaattaattat 6076
 |||||||
Sbjct: 19174949 aaataataaaaaaaaaaattaattat 19174972

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 19205191 ttttttttaaaaaaaaaaaaaa 19205172

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4884 tcttttatttttattttggtt 4903
 |||||||
Sbjct: 19753265 tcttttatttttattttggtt 19753246

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 |||||||
Sbjct: 21268617 ttttttttaaaaaaaaaaaaaa 21268598

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 21339728 ttttttttaaaaaaaaaaaaaa 21339709

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 22718975 ttttttttaaaaaaaaaaaaaa 22718956

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 24039164 ttttttttaaaaaaaaaaaaaa 24039183

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 ||||||||||||||||||
Sbjct: 24195786 aaaaaaaaaattataaaaaaa 24195805

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Plus

Query: 5318 aaaatatatttttgaaaaaaaaattataaaaaaatgaatc 5357
 ||||||||||||| | |||| |||| ||||||||||| ||||
Sbjct: 25431105 aaaatatattttagtaaaataaataataaaaaaatcaatc 25431144

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 25900051 ttttttttaaaaaaaaaaaaaa 25900032

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 25900036 tttttttttaaaaaaaaaaaaaa 25900055

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5331 gaaaaaaaaattataaaaaaatga 5354
 |||||||||| ||||||||||
Sbjct: 27378872 gaaaaaaaaactataaaaaaatga 27378895

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaacaa 5571
 |||||||||||||||||| |||
Sbjct: 30380325 tttttttttaaaaaaaaaaaaacacaa 30380302

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 34295387 tttttttttaaaaaaaaaaaaaa 34295368

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 3902 tttttttaaatgtaaaaatt 3921

|||||
Sbjct: 35034008 tttttttaaatgtaaaaatt 35033989

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5552 ttttaaaaaaaaaaaaaacaa 5571
|||||
Sbjct: 35462537 ttttaaaaaaaaaaaaaacaa 35462556

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 35763209 ttttttttaaaaaaaaaaaaaa 35763228

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6060 aaaaaaaaaattaattatttaccca 6083
||||| |||||
Sbjct: 36122475 aaaaaaaaaattgattatttaccca 36122498

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6155 tttttatacathtagaaatt 6174
|||||
Sbjct: 36139493 tttttatacathtagaaatt 36139474

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Plus

Query: 5322 tatatTTTTGAAAAAAAAATTATAAAAA 5349
 ||||||| |||||||
Sbjct: 36282848 tatatTTTTTAAAAAAAAATTATAAAAA 36282875

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 TTTTTTTTAAAAAAAAAAAAA 5567
 |||||||
Sbjct: 36315430 TTTTTTTTAAAAAAAAAAAAA 36315449

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6768 TTTCTTTTCATTTTGGGTT 6787
 |||||||
Sbjct: 36447304 TTTCTTTTCATTTTGGGTT 36447285

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5555 TAAAAAAAAAAAAAACAAGTA 5574
 |||||||
Sbjct: 36655494 TAAAAAAAAAAAAACAAGTA 36655513

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 TTTTTTTTAAAAAAAAAAAAA 5568
 |||||||
Sbjct: 37728231 TTTTTTTTAAAAAAAAAAAAA 37728212

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 38141137 ttttttttaaaaaaaaaaaaaa 38141118

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||||| |||||
Sbjct: 38186323 ttttttttaaaaaaaaaataaaca 38186300

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 38459423 ttttttttaaaaaaaaaaaaaa 38459404

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 38668771 ttttttttaaaaaaaaaaaaaa 38668790

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 7202 ttgaacaatgcattacacct 7221
 ||||||||||||||||||
Sbjct: 39009500 ttgaacaatgcattacacct 39009481

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 39697690 tttttttttaaaaaaaaaaaaa 39697709

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Minus

Query: 6042 tttttttatccaaataataaaaaaaaaattaattatttacc 6081
 |||||
Sbjct: 40946501 tttttttatccaaataatacaataaaaataaaaatttacc 40946462

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaaa 5564
 |||||
Sbjct: 41334761 aactttttttttaaaaaaaaaaa 41334780

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttt 6284
 |||||
Sbjct: 41515291 ttttttttttgttttgtttt 41515272

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaa 5566

|||||
Sbjct: 41653504 ctttttttttaaaaaaaaaa 41653523

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6269 ttttttgtttgttttaaa 6288
|||||
Sbjct: 41760463 ttttttgtttgttttaaa 41760444

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 2570 tttaaatttgtaaataatattttt 2593
|||||
Sbjct: 41907196 tttaaatttgtaaaaaatattttt 41907173

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5120 attaattgttacaaaatttattat 5143
|||||
Sbjct: 42011659 attaattattacaaaatttattat 42011682

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6052 caaataataaaaaaaaaatta 6071
|||||
Sbjct: 42598398 caaataataaaaaaaaaatta 42598379

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4881 ttttcttttatttttatttt 4900
 ||||||||||||||||||
Sbjct: 42738302 ttttcttttatttttatttt 42738321

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||| |||||||
Sbjct: 42782354 ttttttttaaaaaaacaaaaaca 42782331

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6199 atgttcattttttttttcaa 6218
 ||||||||||||||||||
Sbjct: 43860326 atgttcattttttttttcaa 43860307

>[gb|CM000836.1](#) Glycine max chromosome 3, whole genome shotgun sequence
Length = 47781076

Score = 1592 bits (803), Expect = 0.0
Identities = 813/815 (99%), Gaps = 1/815 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 29600850 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
29600791

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||||||||||||||||||| ||||||| ||||||||||||||||||||||
Sbjct: 29600790 tcaagtaccatacttctatccaaatcatthaatt-cgagatcctttttgataacctctctt
29600732

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 29600731 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
29600672

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 29600671 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
29600612

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 29600611 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
29600552

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 29600551 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
29600492

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 29600491 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
29600432

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 29600431 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
29600372

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 29600371 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
29600312

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 29600311 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
29600252

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 29600251 ataatatgggtctcctatattttcacctctgagttagaaaccctccttcttttgttgaactta
 29600192

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 29600191 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 29600132

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 29600131 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 29600072

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 29600071 tctgcaaaaagcatgcatctcggcgctatctcttg 29600037

Score = 1592 bits (803), Expect = 0.0

Identities = 812/815 (99%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 32752731 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 32752790

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 32752791 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 32752850

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 1822

|||||
 Sbjct: 32752851 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 32752910

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|| |||||
 Sbjct: 32752911 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
 32752970

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 32752971 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
32753030

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 32753031 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
32753090

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 32753091 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
32753150

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 32753151 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
32753210

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 32753211 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
32753270

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

||| |||||
Sbjct: 32753271 tcactttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
32753330

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 32753331 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
32753390

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 32753391 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
32753450

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 32753451 ctccaagtttccaacctctcattcaactcctccctcgactctccaatgaggactatgtca
32753510

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
 ||||||||||||||||||||||||||||||||
Sbjct: 32753511 tctgcaaaaagcatgcatctcggcgctatctcttg 32753545

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||| ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 29854783 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta
29854724

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 29854723 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
29854664

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 29854663 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
29854604

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 29854603 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
29854544

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 29854543 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
29854484

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 29854483 attttatcctgtcgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
29854424

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 29854423 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
29854364

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 29854363 cttaccgcagtcgataaaaacgttcccttagcttgatcggtacctttgcatcacataac
29854304

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 29854303 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
29854244

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 29854243 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
29854184

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 29854183 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
29854124

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 29854123 cattccatatactacgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
29854064

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 29854063 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
29854004

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 29854003 tctgcaaaaagcatgcatctcggcgctatctcttg 29853969

Score = 1584 bits (799), Expect = 0.0
Identities = 811/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 37339980 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
37340039

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 37340040 tcaagtaccatacttctatccaaaccattaatttcgagatccttttttataacctctctt
37340099

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 |||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 37340100 atagtctttttgggtcttcctctgcctcgaatagtttgtcttctctccatctgggtctact
37340159

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
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Sbjct: 37340160 ctctcactacagagtctaccgatcttctctctacatgcccaaaccacctaagttctattt
37340219

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
 |||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 37340220 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
37340279

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 37340280 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
37340339

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 37340340 actttattctcatgttgggtctttgaccgccaacactctgttccgtacaaaatcgccgggt
37340399

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 37340400 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
37340459

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 37340460 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
37340519

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 37340520 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
37340579

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 37340580 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
37340639

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 37340640 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
37340699

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 37340700 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
37340759

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 37340760 tctgcaaaaagcatgcatctcggcgctatctcttg 37340794

Score = 1578 bits (796), Expect = 0.0
Identities = 812/816 (99%), Gaps = 1/816 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 34217273 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
34217332

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 34217333 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
34217392

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 34217393 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
34217452

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

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Sbjct: 34217453 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaataatctatatt
34217512

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 34217513 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
34217572

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 34217573 attttatcctgtctagtcttaccacacatccaccgcaacatcctcatctccgctacacct
34217632

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 34217633 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
34217692

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 34217693 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
34217752

Query: 2123 acccccg-atgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
2181

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Sbjct: 34217753 acccccgaatgctttttctccatttcacccatcctgcttgaatgcatgattcacatcccc
34217812

Query: 2182 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2241

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Sbjct: 34217813 ttcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
34217872

Query: 2242 gataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactt
2301

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Sbjct: 34217873 gataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactt
34217932

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
2361

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Sbjct: 34217933 acattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcg
34217992

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

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Sbjct: 34217993 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
34218052

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 34218053 atctgcaaaaagcatgcatctcggcgctatctcttg 34218088

Score = 1576 bits (795), Expect = 0.0

Identities = 810/815 (99%)

Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 11050102 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
11050161

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 11050162 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
11050221

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 11050222 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
11050281

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

|||||
Sbjct: 11050282 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
11050341

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 11050342 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
11050401

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 11050402 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
11050461

Query: 2003 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 11050462 actttattctcatgttgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
11050521

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 11050522 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
11050581

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 11050582 acccccgatgcttttctccatttcatccatcctgcttgaatggtgatgattcacatccct
11050641

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 11050642 tcaatttccccatcatcctgtattatagacccaagatatattaaaccgtgtgacttgaggg
11050701

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 11050702 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
11050761

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 11050762 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagcttgt
11050821

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 11050822 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
11050881

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 11050882 tctgcaaaaagcatgcatctcggcgctatctcttg 11050916

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 34682101 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
34682042

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 34682041 tcaagtaccatacttctatccaaatcattaagtttgagatcctttttgataacctctctt
34681982

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 34681981 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
34681922

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtcatttt
1882

|||||

Sbjct: 34681921 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
34681862

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 34681861 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
34681802

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 34681801 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
34681742

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 34681741 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
34681682

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 34681681 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
34681622

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 34681621 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
34681562

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 34681561 tcaatttccccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
34681502

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 34681501 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
34681442

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 34681441 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
34681382

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 34681381 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
34681322

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 34681321 tctgcaaaaagcatgcatctcggcgctatctcttg 34681287

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 39735831 aacgccttatcccactagatggggtcggctacatggatcaacttccgccataatgttcta
39735890

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 39735891 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
39735950

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 39735951 atagtctttttgggtcttcctctgcctcgaattttttgtcttctctccatctgggtctact
39736010

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

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Sbjct: 39736011 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
39736070

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttcta
1942

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Sbjct: 39736071 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttcta
39736130

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||

Sbjct: 39736131 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39736190

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 39736191 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
39736250

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
2122

|||||

Sbjct: 39736251 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
39736310

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 39736311 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccg
39736370

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 39736371 tcaatttccccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
39736430

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||

Sbjct: 39736431 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
39736490

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 39736491 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
39736550

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 39736551 ctccaagtttccaacctctcattcagctcctccctcgactctccaaggaggactatgtca
39736610

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
||||||||||||||||||||||||||||||||
Sbjct: 39736611 tctgcaaaaagcatgcatctcggcgctatctcttg 39736645

Score = 1576 bits (795), Expect = 0.0
Identities = 810/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
||||||||||||||||||||||||||||||||
Sbjct: 42643963 aacgccttatcccactaggtggggtcggctacatggatcaacttccgctcataatgttcta
42644022

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 42644023 tccagtatcatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
42644082

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 42644083 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
42644142

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
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Sbjct: 42644143 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
42644202

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
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Sbjct: 42644203 tccaccatcttctctacaataggcgctactcccaccctctctctaataagcttcgtttcta
42644262

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 42644263 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
42644322

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 42644323 actttattctcatgttggctcttgaccgcccacattctgttccgtacaaaatcgccggt
 42644382

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 42644383 cttaccgcagtcgataaaaactttcccttagcttgatcggtacctttgcatcacataac
 42644442

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

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 Sbjct: 42644443 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 42644502

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 2242

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 Sbjct: 42644503 tcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 42644562

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 42644563 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 42644622

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 42644623 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 42644682

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 42644683 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 42644742

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 42644743 tctgcaaaaagcatgcatctcggcgctatctcttg 42644777

Score = 1570 bits (792), Expect = 0.0
 Identities = 807/812 (99%)
 Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
1705

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Sbjct: 15100819 gccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatca
15100760

Query: 1706 agtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
1765

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Sbjct: 15100759 agtatcataacttctatccaaaccattaatttcgagatcctttttgataacctctcttata
15100700

Query: 1766 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
1825

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Sbjct: 15100699 gtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctc
15100640

Query: 1826 ctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
1885

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Sbjct: 15100639 ctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttcc
15100580

Query: 1886 accatcttctctacaataggcgctactccaaccctctctctaatagttcgtttctaatt
1945

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Sbjct: 15100579 accatcttctctacaataggcgctactcccaccctctctctgatagttcgtttctaatt
15100520

Query: 1946 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
2005

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Sbjct: 15100519 ttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctact
15100460

Query: 2006 ttatttctcatgttggtctttgaccgcccacattctgttcgtaaaaaatcgccggtctt
2065

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Sbjct: 15100459 ttatttctcatgttggtctttgaccgcccacattctgttcgtaaaaaatcgccggtctt
15100400

Query: 2066 accgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
2125

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Sbjct: 15100399 accgcagtcggataaaaactttcccttttagcttgatcggtacctttgcatcacataacacc
15100340

Query: 2126 cccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
2185

Sbjct: 15100339 cctgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccccttca
15100280

Query: 2186 atttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
2245

Sbjct: 15100279 atttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagggata
15100220

Query: 2246 atatggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttacat
2305

Sbjct: 15100219 atatggtctcctattttccactctgagttagaaaccctccttcttttggtgaacttacat
15100160

Query: 2306 tccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
2365

Sbjct: 15100159 tccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctc
15100100

Query: 2366 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
2425

Sbjct: 15100099 caagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatct
15100040

Query: 2426 gcaaaaagcatgcatctcggcgctatctcttg 2457

Sbjct: 15100039 gcaaaaagcatgcatctcggcgctatctcttg 15100008

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcggtacatggatcaacttccgccataatgttcta
1702

Sbjct: 24968968 aacgccttatcccactaggtggggcggtacatggatcaacttccgccataatgttcta
24968909

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 24968908 tcaagtaccatactttctatccaaatcattaagttcgagatcctttttgataacctctctt
24968849

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 24968848 atagtctttttgggtcttcctctgcctcgaattatttgtcttctctccatctgggtctact
24968789

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 24968788 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
24968729

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 24968728 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
24968669

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 24968668 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
24968609

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 24968608 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgat
24968549

Query: 2063 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 24968548 ctaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
24968489

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 24968488 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
24968429

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 24968428 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 24968369

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 24968368 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 24968309

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 24968308 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 24968249

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 24968248 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 24968189

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
 |||||

Sbjct: 24968188 tctgcaaaaagcatgcatctcggcgctatctcttg 24968154

Score = 1560 bits (787), Expect = 0.0
 Identities = 808/815 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 8079102 aacgccttatcccactaggtggggctcggctacatggatcaacttctgccataatgttcta
 8079161

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 8079162 tcaagtaccataacttctatccaaatcattaagttcaagatcctttttgataacctctctt
 8079221

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 8079222 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 8079281

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 8079282 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
8079341

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 8079342 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
8079401

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 8079402 attttatcctgttgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
8079461

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 8079462 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
8079521

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 8079522 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
8079581

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 8079582 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
8079641

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 8079642 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
8079701

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

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Sbjct: 8079702 ataatatggtctcctattttccctctgagttagacaccctccttcttttggtgaactta
8079761

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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Sbjct: 8079762 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 8079821

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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Sbjct: 8079822 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 8079881

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 8079882 tctgcaaaaagcatgcatctcggcgctatctcttg 8079916

Score = 1552 bits (783), Expect = 0.0

Identities = 807/815 (99%)

Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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Sbjct: 46682934 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 46682993

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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Sbjct: 46682994 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 46683053

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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Sbjct: 46683054 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 46683113

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
 1882

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Sbjct: 46683114 ctctcactacagaatctaccggtcttctctctacatgcccacacctaagtctattt
 46683173

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942

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Sbjct: 46683174 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
46683233

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 46683234 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
46683293

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 46683294 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
46683353

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 46683354 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
46683413

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 46683414 acccccgatgcttttgtccatttcatccatcctgcttgaatgcgatgattcacatccct
46683473

Query: 2183 tcaatttcccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 46683474 tcaatttctccatcatcctgtattacagaccgaagatatttaaaccgtgtgacttgaggg
46683533

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 46683534 ataatatggtttcctattttcacctctgagttagaaaccctccttcttttgttgaactta
46683593

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 46683594 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
46683653

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 46683654 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
46683713

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 46683714 tctgcaaaaagcatgcatctcggcgctatctcttg 46683748

Score = 1544 bits (779), Expect = 0.0
Identities = 806/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 40842784 aacgccttatccactaggtggggtcggctacatggatcaacttccggtcataatgttcta
40842725

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 40842724 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
40842665

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 40842664 atagtctttttgggtcttcctctgtctcgaattgtttgtcttctctccatctgggtctact
40842605

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
|||||
Sbjct: 40842604 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
40842545

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 40842544 tccaccatcttctctacaataggcgctactccaacccctctctctaataagcttcgtttcta
40842485

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 40842484 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
40842425

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 40842424 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
40842365

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 40842364 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
40842305

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 40842304 acccccgaagcttttctccatttcatccatcgtgcttgaatgcgatgattcacatccct
40842245

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 40842244 tcaatttccccatcatcctgtattacagaccaagatatttaaaccatgtgacttgaggg
40842185

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 40842184 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
40842125

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 40842124 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
40842065

Query: 2363 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 40842064 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
40842005

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 40842004 tctgcaaaaagcatgcatctcggcgctatctcttg 40841970

Score = 1536 bits (775), Expect = 0.0
Identities = 805/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 2689322 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
2689381

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 2689382 tcaagtaccatacttctatccaaatcatttagttcgagatcctttttgataacctctctt
2689441

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

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Sbjct: 2689442 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
2689501

Query: 1823 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 2689502 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
2689561

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 2689562 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
2689621

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 2689622 attttatcctgtctagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2689681

Query: 2003 actttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 2689682 actttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccggt
2689741

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 2689742 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2689801

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccctt
 2182

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 Sbjct: 2689802 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccctt
 2689861

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 2689862 tcaatttcttcatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2689921

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 2689922 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
 2689981

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 2689982 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2690041

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

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 Sbjct: 2690042 ctccaagtttccaacctctcattcaactcctccctcgactctccgaggaggactatgtca
 2690101

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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 Sbjct: 2690102 tctgcaaaaagcatgcatctcggcgctatctcttg 2690136

Score = 1529 bits (771), Expect = 0.0
 Identities = 804/815 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 10793053 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 10793112

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 10793113 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
10793172

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 10793173 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatttagtctact
10793232

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 10793233 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
10793292

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

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Sbjct: 10793293 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
10793352

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 10793353 attttatcctgtcgagtcttaccacacatccaccgcaacatccttatctccgctacacct
10793412

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 10793413 actttattctcatgtttgctcttgaccaccaacattctgttccgtacaaaatcgccggt
10793472

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 10793473 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
10793532

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

|||||
Sbjct: 10793533 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
10793592

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 10793593 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
10793652

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 10793653 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
10793712

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 10793713 cattccatataactccgatttacttctgcttaggcgaaaaccatgtgtttctagagctcgt
10793772

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 10793773 ctccaagtttccaacctatcattcaactcctccctcgactctccaaggaggactatgtca
10793832

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 10793833 tctgcaaaaagcatgcatctcggcgctatctcttg 10793867

Score = 1529 bits (771), Expect = 0.0
Identities = 804/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 38818055 aacgccttatcccactaggtggggtcggctacatggatcaacttctgtcataatgttcta
38817996

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 38817995 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
38817936

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 38817935 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact
38817876

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 38817875 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
38817816

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 38817815 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
38817756

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 38817755 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
38817696

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 38817695 actttattctcatgttggtctcttgaccgtccaacattctgttcggtacaaaacgccggt
38817636

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 38817635 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
38817576

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 38817575 acccccgatgcttttctccatttcatccatcctacttgaatgcgatgattcacatccct
38817516

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 38817515 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
38817456

Query: 2243 ataatatgggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 38817455 ataatatggtctcctattttcacctctgagttagacaccctccttcttttgttgaactta
38817396

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362

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Sbjct: 38817395 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
38817336

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 38817335 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
38817276

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 38817275 tctgcaaaaagcatgcatctcggcgctatctcttg 38817241

Score = 1513 bits (763), Expect = 0.0
Identities = 802/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 18805571 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatattcta
18805512

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 18805511 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
18805452

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 18805451 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
18805392

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 18805391 ctctcactacagagtctaccggtcttctctctacatgcccaaaccatctaagtctattt
18805332

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

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Sbjct: 18805331 tccaccatcttctctacaataggcgctactccaaccctctctctaatagctccgtttcta
18805272

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 18805271 attttatcctgtcgagtcttaccacacatccaccgagacatcctcatctccgctacacct
18805212

Query: 2003 actttattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 18805211 acttttagtctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
18805152

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 18805151 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
18805092

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

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Sbjct: 18805091 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
18805032

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

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Sbjct: 18805031 tcaatttctccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
18804972

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 18804971 ataatatggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
18804912

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 18804911 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
18804852

Query: 2363 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
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Sbjct: 18804851 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
18804792

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
 ||||||||||||||||||||||||||||||||
Sbjct: 18804791 tctgcaaaaagcatgcatctcggcgctatctcttg 18804757

Score = 1507 bits (760), Expect = 0.0
Identities = 803/816 (98%), Gaps = 1/816 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 35877847 aacgccttatctcactaggtggggtcggctatatggatcaacttccgccataatgttcta
35877788

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 35877787 tcaagtaccatacttgtatctaaatcattaagttcgagatccttttttataacctctctt
35877728

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 35877727 atagtctttttgggtcttcctttgcctcgaattgtttgtcttctctccatctgggtctact
35877668

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882
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Sbjct: 35877667 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
35877608

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
1942
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Sbjct: 35877607 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
35877548

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
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Sbjct: 35877547 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
35877488

Query: 2003 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 35877487 actttattctcatggttggtccttgaccgccaacattctgttccgtacaaaatcgctcggt
35877428

Query: 2063 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
2122

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Sbjct: 35877427 cttaccgcagtcgataaaaactttcccttagcttgatcggtaccttgcacataac
35877368

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 35877367 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
35877308

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 35877307 tcaatttccccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
35877248

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctcc-ttcttttgttgaactt
2301

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Sbjct: 35877247 ataatatggtctcctattttcacctctgagttagaaaccctccttttttgttgaactt
35877188

Query: 2302 acattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcg
2361

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Sbjct: 35877187 acattccatataactctgatttgcttctgcttaggcgaaagccatgtggttctagagctcg
35877128

Query: 2362 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
2421

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Sbjct: 35877127 tctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtc
35877068

Query: 2422 atctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||

Sbjct: 35877067 atctgcaaaaagcatgcatctcggcgctatctcttg 35877032

Score = 1505 bits (759), Expect = 0.0
Identities = 801/815 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
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Sbjct: 41121761 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
41121702

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 41121701 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
41121642

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 41121641 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
41121582

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcattt
1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 41121581 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtcattt
41121522

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 41121521 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
41121462

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 41121461 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41121402

Query: 2003 actttattctcatgttgggtctttgaccgccaacattctgttccgtacaaaatcgccgggt
2062
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Sbjct: 41121401 acttttagtctcatgttgggtctttgaccgccaacattctgttccgcacaaaatcgccgggt
41121342

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 41121341 cttaccgcagtcgataaaaactttccctttagcttgatcggcacctttgcatcacataac
41121282

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 41121281 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
41121222

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

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Sbjct: 41121221 tcaatttctccatcatcatgtattacagaccaagatatattaaaccgtgtgacttgaggg
41121162

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 41121161 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
41121102

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 41121101 cattccatataactctgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
41121042

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 41121041 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtta
41120982

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 41120981 tctgcaaaaagcatgcatctcggcgctatctcttg 41120947

Score = 1489 bits (751), Expect = 0.0
Identities = 799/815 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 46352461 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgtaaaa
46352520

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|| |||||
Sbjct: 46352521 tctagtaccatacttctatccaaatcattaagttcgagatccttttttataatctctctt
46352580

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 46352581 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
46352640

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctatatt
1882

|||||
Sbjct: 46352641 ctctcactacagagtctaccggtcttctctctacatgtccaaaccacctaagtctatatt
46352700

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 46352701 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
46352760

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 46352761 attttatcctgtcagagtcttgccacacatccaccgcaacatcttcatctccgctacacct
46352820

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 46352821 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
46352880

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 46352881 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
46352940

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

|||||

Sbjct: 46352941 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
46353000

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 46353001 tcaatttctccatcatcctgtattacagacccaagatattgaaaccgtgtgacttgaggg
46353060

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302

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Sbjct: 46353061 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
46353120

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 46353121 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
46353180

Query: 2363 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

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Sbjct: 46353181 ctccaagttttcaacctctcattcaactcctccctcgattctccaaggaggactatgtca
46353240

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

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Sbjct: 46353241 tctgcaaaaagcatgcatctcggcgctatctcttg 46353275

Score = 1481 bits (747), Expect = 0.0
Identities = 762/767 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggcgggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 44894883 aacgccttatcccactaggtggggcgggctacatggatcaacttccgccataatgttcta
44894824

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 44894823 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
44894764

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 44894763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
44894704

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
1882

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Sbjct: 44894703 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
44894644

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 44894643 ttcaccatcttctctacaataggcgctactccagccctctctctaatagttcgtttcta
44894584

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 44894583 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacactg
44894524

Query: 2003 actttattctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 44894523 actttattctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
44894464

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 44894463 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
44894404

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 44894403 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
44894344

Query: 2183 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 44894343 tcaatttccccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
44894284

Query: 2243 ataatatgggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

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 Sbjct: 44894283 ataatatgggtctcctatttttcacctctgagttagaaaccctccttcttttgttgaactta
 44894224

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

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 Sbjct: 44894223 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 44894164

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaag 2409
 |||||

Sbjct: 44894163 ctccaagtttccaacctctcattcaactcctccctcgactctccaag 44894117

Score = 1481 bits (747), Expect = 0.0
 Identities = 795/811 (98%)
 Strand = Plus / Minus

Query: 1647 ccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatcaa
 1706

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 Sbjct: 45077561 ccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttctatcaa
 45077502

Query: 1707 gtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatag
 1766

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 Sbjct: 45077501 gtatcatacttctatccaaatcattaatttcgagatccttttttataacctctcttatag
 45077442

Query: 1767 tctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctactctcc
 1826

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 Sbjct: 45077441 tctttttgggtcttccctctgcctcgaattgtttgccttctctccatctgggtctactctcc
 45077382

Query: 1827 tcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatttcca
 1886

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 Sbjct: 45077381 tcactacagagtctatcggtcttctctctacatgcccaaaccacctaagtctatttcca
 45077322

Query: 1887 ccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctaattt
 1946

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Sbjct: 45077321 ccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctaattt
45077262

Query: 1947 tatkctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctactt
2006

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Sbjct: 45077261 tatcatgtcgagtcttaccacacatccaccgcaacattctcatctccgctacacctactt
45077202

Query: 2007 tattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggtctta
2066

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Sbjct: 45077201 tattctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgctcgggtctta
45077142

Query: 2067 ccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataaacaccc
2126

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Sbjct: 45077141 ccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataaacacct
45077082

Query: 2127 ccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
2186

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Sbjct: 45077081 ccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccccttcaa
45077022

Query: 2187 tttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgagggataa
2246

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Sbjct: 45077021 tttctccatcatcctgtattacagactcaagatatattaaaccgtgtgacttgagggataa
45076962

Query: 2247 tatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaacttacatt
2306

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Sbjct: 45076961 tatgggtctcctattttcacctctgagttagaaatcctccttcttttgttgaacttacatt
45076902

Query: 2307 ccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgtctcc
2366

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Sbjct: 45076901 ccatatactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgtctca
45076842

Query: 2367 aagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtcatctg
2426

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Sbjct: 45076841 aagtttccaacctctcattcaactcctccctcgactctccaaggaggactatatcatctg
45076782

Query: 2427 caaaaagcatgcatctcggcgctatctcttg 2457
|||||||
Sbjct: 45076781 caaaaagcatgcatctcggcgctatctcttg 45076751

Score = 1457 bits (735), Expect = 0.0
Identities = 753/759 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
|||||||
Sbjct: 5044689 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
5044748

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
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Sbjct: 5044749 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
5044808

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
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Sbjct: 5044809 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
5044868

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
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Sbjct: 5044869 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
5044928

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcggtttcta
1942
|||||||
Sbjct: 5044929 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcggtttcta
5044988

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||||
Sbjct: 5044989 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
5045048

Query: 2003 actttattctcatggttggtcttgaccgcccacattctgttcggtacaaaatcgccggt
2062

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Sbjct: 5045049 actttattctcatggttggtcttgaccgcccacattctgttcggtacaaaatcgccggt
5045108

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 5045109 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
5045168

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

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Sbjct: 5045169 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
5045228

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

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Sbjct: 5045229 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
5045288

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttggtgaactta
2302

|||||

Sbjct: 5045289 ataatatggtctcctattttccctctgagttacaaaccctccttcttttggtgaactta
5045348

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

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Sbjct: 5045349 cattccatatactccgatttgcttctgcttaggcgaaagtcatgtgtttctagagctcgt
5045408

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgac 2401

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Sbjct: 5045409 ctccaagtttccaacctctcattcaactcctccctcgac 5045447

Score = 1423 bits (718), Expect = 0.0
Identities = 739/746 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 32479846 aacgccttatcccactaagtggggtcggctacatggatcaacttccgccataatgttcta
32479787

Query: 1703 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 32479786 tcaagtaccataacttctatccaaaccattaatttcgagatcctttttgataacctctctt
32479727

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 32479726 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
32479667

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 32479666 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
32479607

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 32479606 tccaccatcttctctgcaataggcgctactccaaccctctctctaataagcttcgtttcta
32479547

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 32479546 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
32479487

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 32479486 actttattctcatgttgggtattgaccgccaacattctgttccgtacaaaatcgccggt
32479427

Query: 2063 cttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 32479426 cttatcgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
32479367

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

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Sbjct: 32479366 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
 32479307

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
 2242

|||||
 Sbjct: 32479306 tcaatttccccatcatcatgtattacagaccaagatatttaaactgtgtgacttgaggg
 32479247

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 32479246 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 32479187

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 32479186 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
 32479127

Query: 2363 ctccaagtttccaacctctcattcaa 2388
 |||||

Sbjct: 32479126 ctccaagtttccaacctctcattcaa 32479101

Score = 1247 bits (629), Expect = 0.0
 Identities = 657/665 (98%), Gaps = 1/665 (0%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

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 Sbjct: 23767736 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 23767795

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacc-tctct
 1761

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 Sbjct: 23767796 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataaccctctct
 23767855

Query: 1762 tatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctac
 1821

|||||
 Sbjct: 23767856 tatagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctac
 23767915

Query: 1822 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatt
1881

|||||
Sbjct: 23767916 tctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatt
23767975

Query: 1882 ttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttct
1941

|||||
Sbjct: 23767976 ttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttct
23768035

Query: 1942 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
2001

|||||
Sbjct: 23768036 aattttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacc
23768095

Query: 2002 tactttattctcatgttggtcttgaccgccaacattctgttcgctacaaaatcgccgg
2061

|||||
Sbjct: 23768096 tactttattctcatgttggtcttgaccgccaacattctgttcgctacaaaatcgccgg
23768155

Query: 2062 tcttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
2121

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Sbjct: 23768156 tcttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataa
23768215

Query: 2122 ccccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
2181

|||||
Sbjct: 23768216 ccccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccc
23768275

Query: 2182 ttcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2241

|||||
Sbjct: 23768276 ttcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
23768335

Query: 2242 gataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactt
2301

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Sbjct: 23768336 gataatatggtctcctattttcacctctgagttagataaccctcctacttttgttgaactt
23768395

Query: 2302 acatt 2306
 |||||
Sbjct: 23768396 acatt 23768400

Score = 1112 bits (561), Expect = 0.0
Identities = 585/593 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702
 |||||
Sbjct: 3441972 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
3442031

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatccttttgataacctctctt
1762
 |||||
Sbjct: 3442032 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
3442091

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
 |||||
Sbjct: 3442092 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
3442151

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
1882
 |||||
Sbjct: 3442152 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt
3442211

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942
 |||||
Sbjct: 3442212 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
3442271

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
 |||||
Sbjct: 3442272 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
3442331

Query: 2003 actttattctcatgttgggtcttgaccgcccacattctgttcggtacaaaatcgccgggt
2062
 |||||

Sbjct: 3442332 actttagtctcatgttggctcttgaccgccaacattctgttccgtacaaaatcgccggt
 3442391

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 3442392 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 3442451

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 2182

|||||
 Sbjct: 3442452 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatcccct
 3442511

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgac 2235

|||||
 Sbjct: 3442512 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgac 3442564

Score = 1027 bits (518), Expect = 0.0
 Identities = 555/568 (97%), Gaps = 7/568 (1%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 16856298 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 16856357

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 16856358 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 16856417

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 1822

|||||
 Sbjct: 16856418 -----ttttgggtcttctctgcctcgaattgtttgccttctctccatctggtctact
 16856470

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 16856471 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 16856530

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 16856531 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
16856590

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 16856591 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacactt
16856650

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 16856651 actttattctcatggttggtctcttgactgccaacattctgttccgtacaaaatcgccggt
16856710

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 16856711 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
16856770

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 16856771 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
16856830

Query: 2183 tcaatttcccatcatcctgtattacag 2210
|||||
Sbjct: 16856831 tcaatttctccatcatcctgtattacag 16856858

Score = 971 bits (490), Expect = 0.0
Identities = 518/526 (98%), Gaps = 1/526 (0%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 41013869 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
41013928

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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 Sbjct: 41013929 tcaagtaccatacttctatccaaatcattaatttcgatatcctttttgataacctctctt
 41013988

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

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 Sbjct: 41013989 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 41014048

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 1882

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 Sbjct: 41014049 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 41014108

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttctta
 1942

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 Sbjct: 41014109 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcttctta
 41014168

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

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 Sbjct: 41014169 attttatcctgtcgagtcttaccacacatccaccgcaacattctcatctccgctacacct
 41014228

Query: 2003 actttattctcatgttgggtctttgaccgccccaacattctgttccgtacaaaatcgccggt
 2062

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 Sbjct: 41014229 actttattctcatgttgggtctttgaccgccccaacattctgttccgtacaaaatcgctcggg
 41014288

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 2122

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 Sbjct: 41014289 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
 41014348

Query: 2123 accccgatgcttttctccatttcatccatcctgcttgaatgcat 2168
 |
 Sbjct: 41014349 a-ccccgatacttttctccatttcatccatcctgcttgaatgcat 41014393

Score = 916 bits (462), Expect = 0.0
 Identities = 483/490 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
1702

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Sbjct: 34656042 aacgccttatcccactaggtgggggtcgggtacatggatcaacttccgccataatgttcta
34656101

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 34656102 tcaagtaccatacttccatccaaatcattaagttcgagatcctttttgataacctctctt
34656161

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

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Sbjct: 34656162 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
34656221

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
1882

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Sbjct: 34656222 ctctcactatagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
34656281

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 34656282 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcgtttcta
34656341

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 34656342 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
34656401

Query: 2003 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcgccggt
2062

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Sbjct: 34656402 actttattctcatgttgggtcttggaccgccaacattctgttccgtacaaaatcggtcggt
34656461

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 34656462 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
34656521

Query: 2123 acccccgatg 2132
 |||||
 Sbjct: 34656522 acccccgatg 34656531

Score = 874 bits (441), Expect = 0.0
 Identities = 477/490 (97%), Gaps = 8/490 (1%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 39375591 aacgccttatcccactaggtggggtcggct-----caacttccaccataatgttcta
 39375642

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||
 Sbjct: 39375643 tcaagtatcatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 39375702

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 1822
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 Sbjct: 39375703 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctggtctact
 39375762

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctattt
 1882
 |||||
 Sbjct: 39375763 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagctctattt
 39375822

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942
 | |||||
 Sbjct: 39375823 ttcaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgttttta
 39375882

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002
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 Sbjct: 39375883 attttatcctgtccagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 39375942

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccgggt
 2062

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Sbjct: 39375943 actttattctcatgttggtctctgaccgccaacattctgttcggtacaaaatcgccggt
39376002

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

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Sbjct: 39376003 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
39376062

Query: 2123 acccccgatg 2132
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Sbjct: 39376063 acccccgatg 39376072

Score = 811 bits (409), Expect = 0.0
Identities = 457/473 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

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Sbjct: 23723691 aacgtcttatccgactaggtggggtcggctacatggatcaacttccgccataatgttcta
23723632

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

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Sbjct: 23723631 tcaagtaccatacttctatccaaatcattaacttcgagatccttcttgataaacctctctt
23723572

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 23723571 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
23723512

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 23723511 ctctcactacaaagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
23723452

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
1942

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Sbjct: 23723451 tccaccatcttctctacaataggcgctactccaaccctcttctctaataagcttcggtttcta
23723392

Query: 1943 attttatcctgctcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
 2002

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 Sbjct: 23723391 attttatcctgctcgagtcttaccacacatccatcgcaacatcctcatctccgctatacct
 23723332

Query: 2003 actttattctcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
 2062

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 Sbjct: 23723331 acttttagtttcatgttggtctcttgaccgccaacattctgttccgtacaaaatcgccgat
 23723272

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatc 2115

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 Sbjct: 23723271 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttacatc
 23723219

Score = 755 bits (381), Expect = 0.0
 Identities = 396/401 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 39664275 aacgccttatcccactaggtggggtcgactacatggatcaacttccgccataatgttcta
 39664216

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

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 Sbjct: 39664215 tcaagtaccatacttctatccaaatcatthaagttcgagatcctttttgataacctctctt
 39664156

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
 1822

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 Sbjct: 39664155 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctggtctact
 39664096

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
 1882

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 Sbjct: 39664095 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
 39664036

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 39664035 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
39663976

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 39663975 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
39663916

Query: 2003 actttattctcatgttggtctttgaccgccaacattctgt 2043

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Sbjct: 39663915 actttattctcatgttagctctttgaccgccaacattctgt 39663875

Score = 739 bits (373), Expect = 0.0
Identities = 403/413 (97%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 41054919 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
41054860

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 41054859 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
41054800

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 41054799 atagactttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
41054740

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccacacctaagtctattt
1882

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Sbjct: 41054739 ctctcactatagagtctaccggtcttctctctacatgcccacacctaagtctattt
41054680

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

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Sbjct: 41054679 tccatcatcttctctacaatagggcgctactctaaccctctctctaatagtccgtttcta
41054620

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 41054619 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
41054560

Query: 2003 actttattctcatggtggctcttgaccgccaacattctgttccgtacaaaat 2055

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Sbjct: 41054559 actttagtctcatggtggctcttgaccgccaacattctgttccgtacaaaat
41054507

Score = 732 bits (369), Expect = 0.0
Identities = 393/401 (98%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggtacatggatcaacttccgccataatggttcta
1702

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Sbjct: 41311560 aacgccttatccactaggtggggctcgactacatggatcaacttccgccataatggttcta
41311501

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
1762

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Sbjct: 41311500 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataaacctctctt
41311441

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
1822

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Sbjct: 41311440 atagtctttttgggtcttcctctgcctcgaattgtttgcttctctccatctgggtctact
41311381

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

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Sbjct: 41311380 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
41311321

Query: 1883 tccaccatcttctctacaatagggcgctactccaaccctctctctaatagttcgtttcta
1942

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Sbjct: 41311320 tccaccatcttctctacaatagggcgctactccaaccctctctctaatagttcgtttcta
41311261

Query: 1943 attttatcctgctgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
2002

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Sbjct: 41311260 attttatcctgctgagtccttaccacacatccaccgcaacatcctcatctccgctacacct
41311201

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgt 2043

|||||
Sbjct: 41311200 actttagtctcatgttgactccttgaccgccaacattctgt 41311160

Score = 636 bits (321), Expect = e-179
Identities = 336/341 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 37381369 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
37381428

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 37381429 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt
37381488

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 37381489 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
37381548

Query: 1823 ctctcactacagagtcctaccggtcttctctctacatgcccaaaccacctaagtcctattt
1882

|||||
Sbjct: 37381549 ctctcactacagagtcctaccggtcttctctctacatgcccaaaccacctaagtcctattt
37381608

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 37381609 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
37381668

Query: 1943 attttatcctgctgagtccttaccacacatccaccgcaacat 1983

|||||
 Sbjct: 37381669 attttatcctgtcgcgagtcttaccacacatccaccgcaacat 37381709

Score = 579 bits (292), Expect = e-162
 Identities = 313/320 (97%)
 Strand = Plus / Minus

Query: 1794 ttgtttgtcttctctccatctgggtctactctcctcactacagagtctaccggtcttctct
 1853

|||||
 Sbjct: 37020297 ttgtttgccttttctccatctgggtctactctcctcactacagagtctaccggtcttctct
 37020238

Query: 1854 ctacatgcccacaaaccacctaagtctattttccaccatcttctctacaataggcgctactc
 1913

|||
 Sbjct: 37020237 ctaaatgcccacaaaccacctaagtctattttccaccatcttctctacaataggcgctactc
 37020178

Query: 1914 caaccctctctctaatagtcttcggtttctaattttatcctgtcgcgagtcttaccacacatcc
 1973

|||||
 Sbjct: 37020177 caaccctctctctaatagttccggtttctaattttatcctgtcgcgagtcttaccacacatcc
 37020118

Query: 1974 accgcaacatcctcatctccgctacacctactttattctcatggttggtctttgaccgccc
 2033

|||||
 Sbjct: 37020117 accgcaacatcctcatctccgctacacctactttagtctcatggttggtctttgaccgccc
 37020058

Query: 2034 aacattctgttccgtacaaaatcgccggtcttaccgcagtcgcgataaaaactttcccttta
 2093

|||||
 Sbjct: 37020057 aacattctgttccgtacaaaatcgccggtcttactgcagtcgcgataaaaactttcccttta
 37019998

Query: 2094 gcttgatcggtacctttgca 2113

|||||
 Sbjct: 37019997 gcttgatcggtacctttgca 37019978

Score = 567 bits (286), Expect = e-158
 Identities = 298/302 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||
 Sbjct: 30874990 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 30875049

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
 1762
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 Sbjct: 30875050 tcaagtatcatacttctatccaaatcattaagttcgagatcctttttgataaacctctctt
 30875109

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
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 Sbjct: 30875110 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 30875169

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 1882
 ||||||||||||||||||| ||||||| ||||||||||||||||||| |||||||
 Sbjct: 30875170 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctattt
 30875229

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 1942
 ||||||||||||||||||| ||||||| ||||||||||||||||||| |||||||
 Sbjct: 30875230 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
 30875289

Query: 1943 at 1944
 ||
 Sbjct: 30875290 at 30875291

Score = 535 bits (270), Expect = e-149
 Identities = 294/302 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||
 Sbjct: 46047471 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 46047412

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
 1762

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Sbjct: 46047411 tcaagtaccatacttctatccaagtcattaagttcgagatcttttttataaacctctctt
46047352

Query: 1763 atagtccttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

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Sbjct: 46047351 atagtccttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
46047292

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
1882

|||||
Sbjct: 46047291 ctctcactacagagtctaccggtcttctctctacatgcccaccacctaagtctattt
46047232

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 46047231 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
46047172

Query: 1943 at 1944
||
Sbjct: 46047171 at 46047170

Score = 480 bits (242), Expect = e-132
Identities = 248/250 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggcgggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 43171702 aacgccttatccactaggtggggcgggtacatggatcaacttccgccataatgttcta
43171643

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 43171642 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
43171583

Query: 1763 atagtccttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 43171582 atagtccttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
43171523

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 43171522 ctctcactacagagtctaccggtcttctctctacatgcccaaaccatctaagtctattt
43171463

Query: 1883 tccaccatct 1892

|||||
Sbjct: 43171462 tccaccatct 43171453

Score = 418 bits (211), Expect = e-114
Identities = 226/231 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 7967488 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
7967547

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

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Sbjct: 7967548 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
7967607

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
1822

|||||
Sbjct: 7967608 atagtctttttgggtcttcctctacctcgaattggttgcttctctccatctgggtctact
7967667

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccaccta 1873

|||||
Sbjct: 7967668 ctctcactacagagtctaccggtcttctctctacatgtccaaaccaccta 7967718

Score = 333 bits (168), Expect = 3e-88
Identities = 186/192 (96%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||

Sbjct: 36150213 aacgctttatcccactaagtggggtcggctacatggatcaacttctgccataatgttcta
36150154

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 36150153 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
36150094

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 36150093 atagtctttttgggttttcctctgcctcgaattgtttgtcttctctccatctgggtctact
36150034

Query: 1823 ctctctactaca 1834

|||||
Sbjct: 36150033 ctctctactaca 36150022

Score = 323 bits (163), Expect = 3e-85
Identities = 326/378 (86%), Gaps = 3/378 (0%)
Strand = Plus / Plus

Query: 7381 ccttaaaacacacatgacaaatatttttattataaaaacaaacacccagtgataacaacaat
7440

|||||
Sbjct: 28421864 ccttaaaacacacatgatgactatttttattatgaaacaaacactcagtaatacaaaaaat
28421923

Query: 7441 gaacaacacacatgacaactacaaatcattaataataacaattacaatcaaataatttg-
7499

|||||
Sbjct: 28421924 gaacaacacacatgacgactacgaatcattaataataaaaatagcaattgaataatttgt
28421983

Query: 7500 -gggaggggggtcttcaaaacttgattcaagggttcattgtatcatcgagggtattcacccaa
7558

|||||
Sbjct: 28421984 agggagggg-tcttcaatactcgattcaagggttcattgcttaatcgagggtattcatcaa
28422042

Query: 7559 accctccaaattcaaagagcttgcagaaactgggtgggtgtgcatatgtttatgtggg
7618

|||||
Sbjct: 28422043 accctccaaattccaagagcttgcagaaattgggtgggtgtgcaaatgttgggtgtggg
28422102

Query: 6396 atattttatgttttatcatttttt-aagagttgaaatcctttgtattttt-attttattt
6453

Sbjct: 28411144 atatatttatgtttttataattttattcaaggggttcaaataatatttgtattttttattttattt
28411203

Query: 6454 gattattataatacataattaacaacaacttaattgaaattaaaaaatat-atatttaa
6512

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Sbjct: 28411204 gattaataaaaatacataattaattaacaacttaattgaaattaaaaaaaaacatatatttaa
28411263

Query: 6513 ctgacaagttgacttgaactaaaatattttaaattacaaaatagatatgaaattacaaaca
6572

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Sbjct: 28411264 ccaacaagttgaattgaactaaaatattttaaattacaaaatagatatataaagttataaaca
28411323

Query: 6573 atagaacaaaatattttaaatttgaaataatacaacaaaaatttttaaatacaacaatat
6632

|| ||||||||||||||||||||||||| |||| || ||||||||||||||||||||||||| |
Sbjct: 28411324 attgaacaaaatattttaaatttgaaacaataaaaataaaaatttttaaatacaacaatatgt
28411383

Query: 6633 ggcataaaaattaatgttgttggcctgagcctaca 6666

| ||||||| |||| ||||||||| | |||||||||
Sbjct: 28411384 gacataaaacttaacgttgttggcttaagcctaca 28411417

Score = 266 bits (134), Expect = 6e-68
Identities = 366/440 (83%), Gaps = 5/440 (1%)
Strand = Plus / Plus

Query: 6849 aatcatttgtacatgttatagatacttttcagcgtatacacagaatgtatgtagttccta
6908

||||||||||||||||| ||||||||| || ||||||||| ||| | |||| ||| |
Sbjct: 28411627 aatcatttgtacatgttggagatactttccaatgtatacacatgatatttgaattctca
28411686

Query: 6909 tactcatggtgagcatgcttataa---acaacaacatgagaacaaaacatgtgcattttt
6965

||||||||||| ||||||||| || ||||||||||||||||||| ||||| || |||||
Sbjct: 28411687 tactcatggtgaacatgcttacaagcaacaacaacatgagaacaaggcatgttcactttt
28411746

Query: 6966 tgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaatttctcactagt
7025

|| ||||||| || ||||||||| | ||||||| ||| | ||| ||||||||| || |||
Sbjct: 28411747 tggaaatttgccatagtcacaccatttttcatccagcctaaccgtgaaatttccaac-agg
28411805

Query: 7026 tgaatctctctctccagttaattgtctcctagactaagaattgtatgtcgcattaatcga
 7085
 || | ||||| ||||||||| ||||||||| ||| ||| ||| ||
 Sbjct: 28411806 ccaaac-ctctctcgggttaattgtctcctggactaagaactgtgtgtcacatcgattga
 28411864

Query: 7086 actcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaata
 7145
 ||||||||| ||||||||| ||||| | |||| ||||||||| ||
 Sbjct: 28411865 actcaagaacaatgtgagagttttctttctccatgcatcttccatagccttgtttagta
 28411924

Query: 7146 cttttgtataaaacttcaccaaagttaatcactcttgcgacttctctccccctttggttga
 7205
 || |||| ||||| ||||||||| | |||| ||| ||| | |||||||||
 Sbjct: 28411925 ctagtgtagaaacttgaccaaagttaatcattggttgcaactactctttctctttggttga
 28411984

Query: 7206 acaatgcattacacctagtatagggtgattttaccaacacacattgccagattttgtggt
 7265
 ||||| ||||| || ||| ||||||||| ||||||||| |||||||||
 Sbjct: 28411985 acaatgtattacatcttgtacagggtgattttaccaacacacattggcagattttgtggt
 28412044

Query: 7266 ttcttgagtaccaaattaat 7285
 ||| |||||||||
 Sbjct: 28412045 ttcttgagtaccaaattaat 28412064

Score = 266 bits (134), Expect = 6e-68
 Identities = 141/142 (99%), Gaps = 1/142 (0%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
 1702
 ||||||||| ||||||||| ||||||||| ||||||||| |||||||||
 Sbjct: 36696755 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
 36696696

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 ||||||||| ||||||||| ||||||||| ||||||||| |||||||||
 Sbjct: 36696695 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 36696636

Query: 1763 atagtct-ttttgggtcttcct 1783
 ||||| |||||||||

Sbjct: 36696635 atagtcttttttgggtcttcct 36696614

Score = 254 bits (128), Expect = 2e-64
Identities = 216/242 (89%), Gaps = 5/242 (2%)
Strand = Plus / Minus

Query: 6428 aaatcctttgtatTTTTATTTTATTtgattattataatacataattaacaacaacttaa
6487

|||||
Sbjct: 2313804 aaatcctttgtatTTTTATTTTATTtgattattaaaatacataattaatcaacaacataa
2313745

Query: 6488 ttgaaattaa--aaaatatatTTTtaactgacaagttgacttgaactaaaatattttaat
6545

|||||
Sbjct: 2313744 ttgaaattaaacaaaaagtatTTTtaaccaataagctgaattgaacaaaaatattttaat
2313685

Query: 6546 tacaaaaatagatatgaaattacaaacaatagaacaaaatattttaaatttgaaataataca
6605

|||||
Sbjct: 2313684 tacaaaaatagatatataaaattacaaatgat--aaaaaaatattttaaatttgaaacaataca
2313627

Query: 6606 ac-aaaaatttttaaatacaaaacaatatggcataaaattaatgttggtggcctgagccta
6664

||
Sbjct: 2313626 acaaaaaatttttaaatacaaaacaatatgacataaaacttaatgttattggccttgagccta
2313567

Query: 6665 ca 6666

||
Sbjct: 2313566 ca 2313565

Score = 242 bits (122), Expect = 8e-61
Identities = 288/342 (84%), Gaps = 1/342 (0%)
Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737

|||||
Sbjct: 105754 atgcgacacatggaacattgttttggttgacctgattctcagatattcttttttagtgtat
105695

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttggggtggggcaaatt
6797

Sbjct: 105694 atacaaaaggagacaagatgacccttagaatttcttttcttctttgggccagggcagatt
105635

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcattt-
6856

Sbjct: 105634 cttgactcttgacatagtgaccaatacgcttcgctatgaaatttctcaaacaatcctttt
105575

Query: 6857 gtacatggttatagatacttttcagcgtatacacaagatgtatgtagttcctatactcatg
6916

Sbjct: 105574 gtatatggttgagacactttccaacgtatacacatgatgtatgtagttcctatactcatg
105515

Query: 6917 gtgagcatgcttataaacaacaacatgagaacaaaacatgtgcattttttgaaatttgtc
6976

Sbjct: 105514 gtgagcatgcttacaagcaacaacatgagaacaaaatatgtgcactttttggaatttggc
105455

Query: 6977 acagtcacactacctttcatctagcttgaccatgaaatttct 7018

Sbjct: 105454 acaatcacaccacttttcatctagcttgaccatgaaatttct 105413

Score = 218 bits (110), Expect = 1e-53
Identities = 203/234 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

Sbjct: 32052017 aaaattaattgtcacaaaatttattatttaaatttatatgtgcattaaatatacattaaa
32051958

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

Sbjct: 32051957 aatttttagtggttatatatagcgaaattaattattttatagtataattgggtctattagctt
32051898

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

||||| ||||||| || || ||||||| | ||||||| | ||| ||||||| ||||||| |

Query: 7611 tatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaagagtttc
7670

Sbjct: 27598851 tgtttgggtgtgtctgtggtggtaatagataaactcaaggcatgtgagattggagagtttc
 27598910

Query: 7671 ccaaatatagaaaacatagtaattatttctcatcatcttgcagcatacatgccctgtac
7730

Sbjct: 27598911 ccgaaaaattgaaaacatagtcattatgtcctcatcatcatgcaatatgcatgccctgtac
27598970

```
Query: 7731      tgaaaacaatcaccaacaaatgatac 7756
           || | |||||
Sbjct: 27598971 tggccataatcaccaacaaatgatac 27598996
```

Score = 188 bits (95), Expect = 1e-44
Identities = 98/99 (98%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttctatca
1705

Subjct: 9732117 gccttatcccactaggtggggtcggctacatggatcaacttcgccataatgttctatca
9732058

```
Query: 1706      agtaccatacttctatccaaaccattaatttcgagatcc 1744
                |||
Sbjct: 9732057  agtaccatacttctatccaaatcattaatttcgagatcc 9732019
```

Score = 186 bits (94), Expect = 4e-44
Identities = 94/94 (100%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
1702

Sbjct: 30706772 aacgccttatcccactaggtggggctcggctacatggatcaacttcgccataaatgttcta
30706831

```
Query: 1703      tcaagtaccatacttctatccaaaccattaattt 1736
                |||
Sbjct: 30706832 tcaagtaccatacttctatccaaaccattaattt 30706865
```

Score = 186 bits (94), Expect = 4e-44
Identities = 133/146 (91%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||||||||||||||||||||||||||| ||||||| ||||||||||||| |
Sbjct: 38794968 aaaattaattggttacaaaatttattatctaaatttacatgcacattaaatatacattaaa
38795027

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||| || || || || ||||||||||||||||||||||| ||||| ||
Sbjct: 38795028 aatttttagtggttacatataatgacattaattattttataacataattgacctattagctc
38795087

Query: 5237 agttggtagagcattatgttaataa 5262
 | ||| ||||| |||||||||||||
Sbjct: 38795088 aattgattagaacattatgttaataa 38795113

Score = 176 bits (89), Expect = 4e-41
Identities = 340/417 (81%), Gaps = 10/417 (2%)
Strand = Plus / Plus

Query: 6882 gtatacacaagatgtatgtagttcctataactcatggtgagcatgcttataa---acaaca
6938
 |||| ||||||||||||||||| | ||| || ||||||||| ||||| || |||||
Sbjct: 18370786 gtatgcacaagatgtatgtagtttcagtacacagagtgagcattcttacaagcaacaaca
18370845

Query: 6939 acatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactacctttcatct
6998
 ||||||||||||| ||||||||| ||||||| ||||||||| || || || ||||| |||||
Sbjct: 18370846 acatgagaacaagacatgtgcactttttggaatttgtcatagttacattaccttccatct
18370905

Query: 6999 agcttgaccatgaaatttctcact-agttgaatctctctctccagttaattgtctcctag
7057
 | ||||||||||||||||| || | ||||||| ||||||| ||||||||||||| |
Sbjct: 18370906 actctgaccatgaaatttc-cagtgagttgaacctctctcgg--gttaattgtctcttca
18370962

Query: 7058 actaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcctttttc
7117

|||||
 Sbjct: 18370963 actaagaattgtgtgtcgcacgattgaattcaagaacaatatgagtggtttcctttctg
 18371022

Query: 7118 tgtatgtctttcatagccttggttaataacttttgataaaacttcaccaaagtgaatcact
 7177

||||
 Sbjct: 18371023 tgtgcgctcctccatggccttggttagtacatgtgtataaatttggccagatgtgagcatt
 18371082

Query: 7178 cttgcgacttctctcccccttggttgaacaatgcattacacctagtatagggtgatttt
 7237

||||
 Sbjct: 18371083 gttgcaacttctctcctccttggttgaataatgcattacaccttatatatgtt-atttt
 18371141

Query: 7238 accaacacac--attgccagattttgtggtttcttgagtaccaaattaattaactca
 7292

||||
 Sbjct: 18371142 actaacacacttattagcagattttgtattttcttgagtatcgaattaattgactca
 18371198

Score = 176 bits (89), Expect = 4e-41
 Identities = 303/371 (81%), Gaps = 5/371 (1%)
 Strand = Plus / Plus

Query: 6872 actttttcagcgtatacacaagatgtatgtagttcctataactcatgggtgagcatgcttata
 6931

|||||
 Sbjct: 18379406 actttttcaacatatacataagatgtatgtagttcatataactcatgggtgagcttgcttaaa
 18379465

Query: 6932 aa---caacaacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacacta
 6988

||
 Sbjct: 18379466 aatagcaataacatgagaacaaggcatgtgtactttttggaatttgtcatagttacatca
 18379525

Query: 6989 cctttcatctagcttgaccatgaaatttctcactagttgaatctctctctccagttaatt
 7048

|||||
 Sbjct: 18379526 cctttcatccagcctgacaatgaaatttc-cagcaggctaaac-ctctctcaggttgatt
 18379583

Query: 7049 gtctcctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagttt
 7108

|||||

Sbjct: 18379584 gtctcttgtactaagaatcatgtgtcgcacatcgatcaaactcaagaacaatctgagcatat
 18379643

Query: 7109 gcctttttctgtatgtctttcatagccttggttaataacttttgtataaaacttcaccaa
 7168

||||| ||||| ||||| ||| ||||||||||||||| ||||||||| || |||
 Sbjct: 18379644 gcctttctctgtgcgctcttccatggccttggttaataacttgcgatataaaacttggctagat
 18379703

Query: 7169 gtaatcactcttgcgacttctctcccccttgggtgaacaatgcattacacctagtatag
 7228

|||| | | |||| |||| |||||| |||| |||||| ||||||||||||| |||||
 Sbjct: 18379704 gtaagcattggtgcaacttttctccctctttagttgaaaaatgcattacaccttatatat
 18379763

Query: 7229 gttgattttac 7239
 |||||||||
 Sbjct: 18379764 gttgattttac 18379774

Score = 176 bits (89), Expect = 4e-41
 Identities = 281/342 (82%), Gaps = 6/342 (1%)
 Strand = Plus / Minus

Query: 6678 atgcgacacatggaacatcattttgggtttacctgattcttggatatccattttggtgtgt
 6737

||||||||||||||||| |||||||| | | ||||| ||||||||||| | |||||
 Sbjct: 32201850 atgcgacacatggaacatcgttttgggttgacttagttcttagatatccatttcgatgtgg
 32201791

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttgggggcaaatt
 6797

|||| ||||||||||| || ||| ||||||||| ||||| | | ||| ||||||| |||
 Sbjct: 32201790 ataccagaggagaca-gacgacccttagaatttattttcttctcaaggctcggggcagatt
 32201732

Query: 6798 cttggcttgtgacatggtgaccaacatgcttcattgcacaatttcccaagtaatcatttg
 6857

|| ||||||||||||||| |||| ||||||| ||||||||| |||| ||| | |||
 Sbjct: 32201731 atttgcttgtgacatggtggccaatatgcttcggtgcacaatttctcaaacaattctctg
 32201672

Query: 6858 tacatgttatagatacttttccagcgtatacacaagatgtatgtagttcctataactcatgg
 6917

|| | ||| ||| | ||| || ||||||| ||||||| ||||||||| |||||||||
 Sbjct: 32201671 tatacgttggagacattttccaatgtatacaaaagatgcatgtagttcctgtactcatgg
 32201612

```
Query: 7244      acac--attgccagattttgtgtttcttgagtaccaaattaattaactca 7292
              ||||  ||||  |||||||||||||||||||||||||||||||
Sbjct: 105212   acacttattgacaaattttgtgtttcttgagtaccaaattaatcaactca 105162
```

Score = 167 bits (84), Expect = 4e-38
 Identities = 129/144 (89%)
 Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaac
 1257
 |||
 Sbjct: 30967764 catacctttctcggccttttggctaagatcaagtgtagtagtctgttcttatcagtttaac
 30967823

Query: 1258 atctgatatgtgggtcattggccacatgatattaaatttttttgaaggggtggggcc
 1317
 || |||
 Sbjct: 30967824 atttgatatgtggaccattgggtcacacgatattaaattttttgagggggaggggtc
 30967883

Query: 1318 tgacatagtagcttgctactgggg 1341
 |||
 Sbjct: 30967884 cattatagtagcttgctactgggg 30967907

Score = 163 bits (82), Expect = 6e-37
 Identities = 130/146 (89%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 |||
 Sbjct: 4629643 aaaattaattatcacaaaatttattatctaaatttgcacataaatatacattaga
 4629702

Query: 5177 aatttttagtggttatatttagtgaaattaatttttataacataattgatgtattagttc
 5236
 |||
 Sbjct: 4629703 aatttttagtggttacatatagagaaattaatttttataacataattgacataattttc
 4629762

Query: 5237 agttggtagagcattatgttaataa 5262
 |||
 Sbjct: 4629763 agtttatttagagcattatgttataa 4629788

Score = 161 bits (81), Expect = 3e-36
 Identities = 215/256 (83%), Gaps = 14/256 (5%)
 Strand = Plus / Minus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataatTTTTtATC
4816
 ||||| |||||||||||||||| |||||||| || |||||||| || || || || || || ||
Sbjct: 34735443 taactcttaatctttttattggtaccgtaagtaacaattaatgagcaacaactcttcacc
34735384

Query: 4817 aatatcatagctttgttttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876
 ||||| |||| | |||||||||||||||||| || |||||||||||||| || || || || || ||
Sbjct: 34735383 aatataatagttttgttttagaaaaaaaga--tttaataattaataaataa-gaaacccaa
34735327

Query: 4877 aagtttttcttttattt-----ttattttgttcctattcaattctaattttgtcat
4927
 || | |||||||||||| | |||||| | |||||||||||||||||| || || || || ||
Sbjct: 34735326 aaatctttcttttatttctattctctttattttcttcctattcaattctaattctatatt
34735267

Query: 4928 -ttttttcactgtctctcgtacttctctgtcttctcacctgtttcttcagtttacttgat
4986
 |||| | |||||||||||| |||||||| | |||||||||||||||||| ||||||||||||
Sbjct: 34735266 cttttctcactgtctctcatacttctctatcttctcacctgtttcttcagtttacttgat
34735207

Query: 4987 tattattttactttga 5002
 |||| ||| ||||||||
Sbjct: 34735206 tattgtttcactttga 34735191

Score = 161 bits (81), Expect = 3e-36
Identities = 138/157 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||||||||| | |||||||||||| | |||||| |||| | || ||||||||||||||||
Sbjct: 40444325 aaaattaattgtcacaaaatttattatgttaaatttacatgtgcattaaatatacattaga
40444384

Query: 5177 aattttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||||||||||||| || || || |||||||||||||||||||||| || || || || ||
Sbjct: 40444385 aattttagtgttatatataacgacattaattattttataacataattgacctattagatt
40444444

Query: 5237 agttggtagagcattatgttaataatgtgaaagtca 5273
 |||||||| |||| | ||| |||||| |||||||||

Sbjct: 40444445 agttggtttgagcgtcatgctaataatttgaaagtca 40444481

Score = 157 bits (79), Expect = 4e-35
Identities = 104/111 (93%), Gaps = 1/111 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 37020419 aacgccttatcccattaggtggggctcgactacatg-atcaacttccgccataatattcta
37020361

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgata 1753

|||||
Sbjct: 37020360 tcaagtaccatacttctatccaaatcattaagtctcgagatccttcttgata 37020310

Score = 155 bits (78), Expect = 2e-34
Identities = 129/146 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 25707867 aaaattaattgtcacaaaatttattatttaaatttacatgcacattaaatatacattata
25707926

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 25707927 aatttttagtggttatataacaacattatttattttataacataattgggtttattagttc
25707986

Query: 5237 agttggtttagagcattatgttaataa 5262

| |||||
Sbjct: 25707987 aagtggtttagagcatcatgctaataa 25708012

Score = 155 bits (78), Expect = 2e-34
Identities = 174/206 (84%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
5175

Score = 151 bits (76), Expect = 2e-33
Identities = 118/132 (89%)
Strand = Plus / Minus

[illegible]

Query: 6780 tttgggttggggcaaattcttggcttgtgacatggtgaccaacatgcttcattgcacaat
6839

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Sbjct: 34562845 tctaggttgggggagatcattggcttgtgacatggtggccaataggtttcgttgcataat
34562786

Query: 6840 ttcccaagtaatcatttgtacatgttatagatacttttcagcgtatacacaagatgtatg
6899

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Sbjct: 34562785 tctccaaacaatcatttgtatacgttggagagactttccaacatatacatgaggtgtatg
34562726

Query: 6900 tagttcctataactcatggtgagcatgcttataaac---aacaacatgagaacaaaacatg
6956

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Sbjct: 34562725 tagtgtctataactcatgataaacatgcttacaagcattaacaacatgagaacaaagcatg
34562666

Query: 6957 tgcattttttgaaatttgtcacagtcacactacctttcatctagcttgaccatgaaat
7014

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Sbjct: 34562665 tgcaacttctagagtttgcaacagtcacaccacctttcatctagcctaaccctgaaat
34562608

Score = 141 bits (71), Expect = 2e-30
Identities = 185/223 (82%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacacataaatatacattaga
5176

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Sbjct: 3512435 aaaattaattatcacaaaatttattatttaaatttatatgcgcatgaaatatacattaga
3512376

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

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Sbjct: 3512375 aatttttagtggttatgtataacaacattatttattttataatgtaattgattcattagctt
3512316

Query: 5237 agttgggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

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Sbjct: 3512315 aattgggttagagcattatgttaataacctgaaagttataagtttgattcttgtttgagtc
3512256

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttgaaaaaaa 5339

|||||
Sbjct: 3512255 attaatttttaaattaattcatcacagatatattttttaaaaaaa 3512213

Score = 141 bits (71), Expect = 2e-30
Identities = 160/187 (85%), Gaps = 2/187 (1%)
Strand = Plus / Minus

Query: 7418 caaacacccagtgatacaacaatgaacaacacacatgacaactacaaatcattaaataat
7477

|||||
Sbjct: 14893202 caaacacttagtaatacaacaatgaacaacacacataaaggctacaaataattaaataat
14893143

Query: 7478 acaattacaatcaaataatttggggagggggg-cttcaaaacttgattcaagggttcattg
7536

| |||
Sbjct: 14893142 aaaataacaat-aaataatttggagggggtgtttcttcaaaactcgattcaagggttcattg
14893084

Query: 7537 tatcatcgagggtattcacccaaaccctccaaattcaaagagcttgcagaaactggtggtg
7596

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Sbjct: 14893083 cttcatcaagggtattcaaataaaccctccaaattccaagagcttgtagaaattagtggtg
14893024

Query: 7597 gttgtgc 7603

|||||
Sbjct: 14893023 gttgtgc 14893017

Score = 141 bits (71), Expect = 2e-30
Identities = 116/131 (88%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

|||||
Sbjct: 32052219 aaaattaattggttacaaaatttattatttaaatttacattgcacattaaatatacattaaa
32052278

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 32052279 aatttttaattggttatatataacaacattaattattttataacattcattgacctattaagt
32052338

Query: 5237 agttgggttaga 5247
|||||||
Sbjct: 32052339 agttgggttaga 32052349

Score = 141 bits (71), Expect = 2e-30
Identities = 153/179 (85%), Gaps = 1/179 (0%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtggttatTTtagtgaaattaattTTTataacataa
5221
||||||| ||||| ||||| || || ||||| | |||||
Sbjct: 34704784 taaatatacattaaaaatTTtagtattatatataacgacattaattaatctataacataa
34704843

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataatgtgaaagtcaaaagttca
5281
|||| |||| || || ||||| ||||| || || ||||| |||||
Sbjct: 34704844 ttgatctattaactcaatttggttagagtggtatgctaa-aatgcaaaagtcacaagttca
34704902

Query: 5282 attcttacttggatcattaatTTTaaattaatttgtaaaatatTTTTTgaaaaaaaa
5340
|||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 34704903 attcctacttggaccattaatTTTaaattaattcttaaattatatTTTTTgaaagaaaa
34704961

Score = 141 bits (71), Expect = 2e-30
Identities = 134/155 (86%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatTTtattatctaaatTTgcatgcacaataaatatacattaga
5176
||||||| ||||| ||||| ||||| || || ||||| |||||
Sbjct: 37382849 aaaattaattgtcacaaaatTTtattaagtaaatttatatgtccattaatatattaga
37382790

Query: 5177 aatTTtagtggttatTTtagtgaaattaattTTTataacataattgatgtattagttc
5236
||||||| ||||| || || ||||| ||||| ||||| |||||
Sbjct: 37382789 aatTTtagtggttatataacgatattaattaattTTTataacataattgatctattagttt
37382730

Query: 5237 agttgggttagagcattatgttaataatgtgaaagt 5271
||||||| || ||||| ||||| |||||

Sbjct: 37382729 agttggttatagcgttatgctaataacctgaaagt 37382695

Score = 139 bits (70), Expect = 9e-30
Identities = 155/181 (85%), Gaps = 3/181 (1%)
Strand = Plus / Plus

Query: 7431 atacaacaatgaacaacacacatgacaactacaaatcattaataataacaattacaatca
7490

Sbjct: 18383806 atacaacaatgataaacacacatgacgactacaaatcattaataattaagtagcaatca
18383865

Query: 7491 aataatttgaggaggagggtcttcaaaacttgattcaagggttcattgtatcatcgaggtat
7550

Sbjct: 18383866 aataaattagag-gggtttcttcaaaactttgttcaagggttcactgcttcatcgaggtat
18383924

Query: 7551 tcacccaaaccctccaaattcaaagagcttgcaaaaactgggtgggtgtgcatatgtt
7610

Sbjct: 18383925 tcatccaaac--tccaaattcaaagagcttgcaaaaactcggtgggtgtgcatatgtt
18383982

Query: 7611 t 7611

Sbjct: 18383983 t 18383983

Score = 137 bits (69), Expect = 4e-29
Identities = 129/148 (87%), Gaps = 2/148 (1%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatag
5175

Sbjct: 1660951 aaaaattaattgtcacaaaatttattatgtaaatttattatgtgtattaaatatacatag
1660892

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

Sbjct: 1660891 aaatttttagtggttatatatagtgacattaattatttttaa--aattgatctattagtt
1660834

Query: 5236 cagttggtagagcattatgttaataat 5263
||||||| || |||||
Sbjct: 1660833 tagttggtagagtgtgtgtaataat 1660806

Score = 137 bits (69), Expect = 4e-29
Identities = 141/161 (87%), Gaps = 3/161 (1%)
Strand = Plus / Plus

Query: 6496 aaaaaatatatattaactgacaagttgacttgaactaaaatatttaaattacaaaatag
6555
||||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18370382 aaaaaaacatatattaaccaacaagttgaattgaactaaa-tatttaaattacaaa-tag
18370439

Query: 6556 atatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaa-caaaaatt
6614
|||| ||||| || | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18370440 atataaaattacaaatagtggacaaaatatttaaatttcaaacaatacaataaaaaaat
18370499

Query: 6615 ttaaaatacaaaacaatatggcataaaattaatgttggtggc 6655
||||||| ||||| ||||| ||||| |||||
Sbjct: 18370500 ttaaaatacaaaagaatatgcataaaacttaacgttggtggc 18370540

Score = 135 bits (68), Expect = 1e-28
Identities = 186/224 (83%), Gaps = 1/224 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
||||||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38794771 aaaattaattgtcaaaaaatttattatccaaatttacatgtgcattaaatatacattaaa
38794712

Query: 5177 aatttttagtgttatatatttagtgaaattaattattttataacataattgatgtattagttc
5236
|| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 38794711 aaatttagtgttatatatagcgatattaattattttataacataattga-ctattagttc
38794653

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
| ||| |||| | | ||||| ||||| ||||| ||||| |||||
Sbjct: 38794652 aattgattagaatatcgtactaataacatgaaagtcacatgtttaatttctgtttaggcc
38794593

Query: 5297 attaatttttaaattaatttgtaaaatatatttttgaaaaaaaaa 5340
 ||||||||||| ||||| ||||| | ||||||||||||||||
Sbjct: 38794592 attaattttaagttaatttcgtaaaacacatttttgaaaaaaaaa 38794549

Score = 133 bits (67), Expect = 6e-28
Identities = 118/135 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||| | ||||||||||||||| ||||||| ||| || ||||||| |||||
Sbjct: 32837615 aaaattaattatcacaaaatttattatataaaatttacatgtgcattaaatatatattaga
32837556

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||||||||||| ||||| ||||||||||||||| ||||||| ||||| |
Sbjct: 32837555 aatttttagtggttatatatagtgatattaattattttataaatataattgacatattagcta
32837496

Query: 5237 agttggtagagcat 5251
 ||||| ||| |||||
Sbjct: 32837495 agttgattaaagcat 32837481

Score = 133 bits (67), Expect = 6e-28
Identities = 97/107 (90%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||||||||||||||||| ||||||| ||||||| ||||||| |||||
Sbjct: 43339146 aaaattaattggttacaaaatttattatttaaatttacatgcacattaaatatatattaga
43339205

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 ||||||||||||||| || | ||| ||||||||||||||| |||||
Sbjct: 43339206 aatttttagtggttatataataatattattttattttataacgtaatt 43339252

Score = 131 bits (66), Expect = 2e-27
Identities = 115/130 (88%), Gaps = 1/130 (0%)
Strand = Plus / Minus

Query: 6526 ttgaactaaaatattttaaattacaaaatagatatgaaattacaaacaatagaacaaaata
6585

||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||
Sbjct: 105928 ttgaattaaaatattttaaattacaaaatagatataagattacaaacaataaaacaacata
105869

Query: 6586 tttaaatttgaaataataacaacaa-aaatttttaaaatacaacaatatggcataaaaatta
6644

||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||
Sbjct: 105868 tttaaatttgaaatcgtaacaacaatattttttaaaagtacaaagaatataacataaactta
105809

Query: 6645 atgttggttg 6654
||||| |||
Sbjct: 105808 atgttggttg 105799

Score = 131 bits (66), Expect = 2e-27
Identities = 125/142 (88%), Gaps = 2/142 (1%)
Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataattttttatc
4816

||||| ||||||| ||||||| ||||||| ||| ||||||| ||| ||| ||| ||| |||
Sbjct: 37306922 taactgttaatctttttattgataccgtaaataacaattaatgagcaacaactcttcaac
37306981

Query: 4817 aatatcatagcttttgttttagaaaaaaagagatttaataattaatagctaaagaaatccaa
4876

||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||
Sbjct: 37306982 aatattatagctttatttagaaaaaa- agatttaataattaatagttaaagaagcccaa
37307040

Query: 4877 aagtttttcttttatttttatt 4898
||||| ||||||| |||
Sbjct: 37307041 aagtttttcttttatttatatt 37307062

Score = 129 bits (65), Expect = 9e-27
Identities = 141/164 (85%), Gaps = 3/164 (1%)
Strand = Plus / Plus

Query: 6445 attttatttgattattataataacataattaaacaacaacttaattgaaattaaaaaatat
6504

||||| ||||||| ||||||| ||||||| ||||||| ||| ||||||| |||

Query: 1804 tctctccatctggtctactctcc 1826

|||||
Sbjct: 35243785 tctctccatctggcctactctcc 35243807

Score = 129 bits (65), Expect = 9e-27
Identities = 116/133 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 36177441 aaaattaattggttacaaaatttattatttaaatttatatgcgcattaaatatacatcaga
36177382

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||
Sbjct: 36177381 aattttaatggttatgtatagtaacattatttattttataacataattggctcattagctc
36177322

Query: 5237 agttggtagagc 5249

|||||
Sbjct: 36177321 agttggtagagc 36177309

Score = 127 bits (64), Expect = 3e-26
Identities = 97/108 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 29360508 aaaattaatcggtcacaaaatttattatctaaatttacatgtgcattaaatatatattaga
29360449

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattg 5224

|||||
Sbjct: 29360448 aatttttagtggttatatatagcgacattaattattttataatataattg 29360401

Score = 127 bits (64), Expect = 3e-26
Identities = 185/224 (82%), Gaps = 1/224 (0%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176

|||||
 Sbjct: 37295988 aaaattaattatcacaaaatttattatttaatttacatgcataataacacattaga
 37296047

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 37296048 aatttttagtggtatgtataataacattattttattttataataattgactcattagttc
 37296107

Query: 5237 agttggtagagcattatggttaataatgtgaaagtca-aaagttcaattcttacttggat
 5295

|||||
 Sbjct: 37296108 agttggataaagcgctgtgctaataacctgaaagtcacatgggtttgattcttgtttggac
 37296167

Query: 5296 cattaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5339

|||||
 Sbjct: 37296168 cattaatttttaaattaattcgtcacaaatatattttcaacaaaaa 37296211

Score = 125 bits (63), Expect = 1e-25
 Identities = 114/131 (87%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
 5176

|||||
 Sbjct: 3680458 aaaattaattgtcatataatttattatgtaaatttacatgtgcattaaatatattttaga
 3680517

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 3680518 aatttttagtggttatatatagtaacattaattattttacaacataattgatttattagctc
 3680577

Query: 5237 agttggtaga 5247

|||||
 Sbjct: 3680578 agttgattaga 3680588

Score = 125 bits (63), Expect = 1e-25
 Identities = 79/84 (94%), Gaps = 4/84 (4%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 40690412 aacgccttatcccactaggtgggg----ctacatggatcaacttccgccataatgttcta
40690467

Query: 1703 tcaagtaccataacttctatccaaa 1726

|||||
Sbjct: 40690468 tcaagtaccataacttctatccaaa 40690491

Score = 123 bits (62), Expect = 5e-25
Identities = 116/134 (86%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgtttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175

|||||
Sbjct: 1985594 aaaaattaattatcataaaaatttattatgttaaatttacatgtgcattaaatatacattag
1985535

Query: 5176 aaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235

|||||
Sbjct: 1985534 aaattttagtattatataacgatattaattattttataacataattggcctattaatt
1985475

Query: 5236 cagttgggttagagc 5249

|||||
Sbjct: 1985474 cagtttggttagagc 1985461

Score = 123 bits (62), Expect = 5e-25
Identities = 104/118 (88%)
Strand = Plus / Plus

Query: 6549 aaaatagatatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaaca
6608

|||||
Sbjct: 24406976 aaaatagatatataaaattataaacaatagaataaaaatatttaaatttcaaactacaaca
24407035

Query: 6609 aaaatttttaaatacaaaacaatatggcataaaattaatgttggttggcctgagcctaca
6666

|||||

Sbjct: 24407036 aaatttttaacttacaaacaataacaacataaaacttaatgttggttggttgagcctaca
 24407093

Score = 123 bits (62), Expect = 5e-25
 Identities = 125/146 (85%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacattag
 5175

Sbjct: 37791633 aaaaattaattgtcacaaaatttattatgtaaatttatatgtatattaaatatacattag
 37791574

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235

Sbjct: 37791573 aaattttattggttatatataacaacattaattattttataacataattattttattaact
 37791514

Query: 5236 cagttggtagagcattatgttaata 5261
 Sbjct: 37791513 cagttgattaaagcattatgctaata 37791488

Score = 123 bits (62), Expect = 5e-25
 Identities = 189/230 (82%), Gaps = 6/230 (2%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176

Sbjct: 44880824 aaaattaattgtcacaaaatttattatttaattttacatgtgcattaaatatacattaaa
 44880765

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

Sbjct: 44880764 aatttttagtggttatatataataacattattttattttataatataattggcctattagctc
 44880705

Query: 5237 agttggtagagcattatgttaataatgtgaaa-----gtcaaaagttcaattcttactt
 5291

Sbjct: 44880704 agttatttagagtgttgatttaataacatgaaaatcacatcacatgttcgactcctactt
 44880645

Query: 5292 ggatcattaatttttaaattaatttgtaaaatata-tttttgaaaaaaaaa 5340
 || |||||||||||||||||||||||||||| || ||||||||||||||||
 Sbjct: 44880644 tgaccattaatttttaaattaatttgtaaaacatatTTTTTgaaaaaaaaa 44880595

Score = 121 bits (61), Expect = 2e-24
 Identities = 61/61 (100%)
 Strand = Plus / Minus

Query: 1995 ctacacctactttatttctcatgttggtctttgaccgccaacattctgttccgtacaaaa
 2054
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 36150021 ctacacctactttatttctcatgttggtctttgaccgccaacattctgttccgtacaaaa
 36149962

Query: 2055 t 2055
 |
 Sbjct: 36149961 t 36149961

Score = 121 bits (61), Expect = 2e-24
 Identities = 104/117 (88%), Gaps = 1/117 (0%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||| |||||||||||||||| | ||||||| |||| || ||||||| ||||||||
 Sbjct: 38331283 aaaattaatagttacaaaatttattttataaaatttacatgtgcattaaata-acattaga
 38331341

Query: 5177 aattttagtggttatatttagtgaaattaattatTTTataacataattgatgtattag
 5233
 |||||||||||||||| || || |||||||||||||||||||||||||||| |||||
 Sbjct: 38331342 aattttagtggttatataataacgacattaattatTTTataacataattgatctattag
 38331398

Score = 121 bits (61), Expect = 2e-24
 Identities = 115/133 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||||| |||||||||||||||| ||||||| ||| | || |||||||||||||

Sbjct: 42863749 aaaattaattgtcacaaaatttattattttaatttacatacgcatataacattaga
 42863690

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

|||||
 Sbjct: 42863689 aatttttagtggttatgtataacaactttattttattttataatataattgactcattagttc
 42863630

Query: 5237 agttgggtagagc 5249

|||||
 Sbjct: 42863629 agttgggtagagc 42863617

Score = 119 bits (60), Expect = 9e-24
 Identities = 184/224 (82%), Gaps = 1/224 (0%)
 Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataacataacattaga
 5176

|||||
 Sbjct: 2448467 aaaattaattgtcacaaaatttattcatttgaatttacctgcacataacataacattaga
 2448408

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236

||||
 Sbjct: 2448407 gatttgagtggttatataacaacattattttattttataacataattgacctattagttc
 2448348

Query: 5237 agttgggtagagcattatgttaat-aatgtgaaagtcaaaagttcaattcttacttggat
 5295

|
 Sbjct: 2448347 aactgggtagattgtcatgctaataaacgcaaaagtcacagggttgactcttgcttgaac
 2448288

Query: 5296 catataatttttaaatattttgtaaaatatatttttgaaaaaaaaa 5339

|||||
 Sbjct: 2448287 catataatttcaaattaatttcgtaaaacatgtttttgaaaaaaaaa 2448244

Score = 119 bits (60), Expect = 9e-24
 Identities = 114/132 (86%)
 Strand = Plus / Minus

```
Query: 5116      aaaaattaattgttacaaaattttattatctaaatttgcatgcacaataaatatacattag
5175            ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 3943613  aaaaagtaattatcacaaaatttattatataaaatttacatgtgcattaaataacattaa
3943672
```

Sbjct: 21343394 aataatgtgagttttt--ctttctttgtgcgtcttttgtagccttggttagtggttctat
21343451

Query: 7153 ataaacttcaccaaataatgaatacactcttgcgacttctctccccctttgggtgaacaatgc
7212

||||||| ||||||||| | ||| ||||||||| ||||||||| |
Sbjct: 21343452 ataaacttggccaaataatgaatacattgttgggacttctctccctctttgggtgaacaaggt
21343511

Query: 7213 attacacctagtatataggttgattttacca 7241

|||| |||| ||||||||| |||||
Sbjct: 21343512 attataccttgatataggttgattttacca 21343540

Score = 115 bits (58), Expect = 1e-22
Identities = 127/149 (85%), Gaps = 2/149 (1%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgtttacaaaatttattatctaaatttgcacataaataacattag
5175

||||||||| ||||| ||||||||| ||||||| ||||| ||| ||||||||| |||||
Sbjct: 43290338 aaaaattaattgtttaataatttattatgtaaatttacatgtacattaaatatatattaa
43290279

Query: 5176 aaatttttagtgt--tatatttagtgaaattaattattttataacataattgatgtattag
5233

||||||| ||| ||||| ||||||| ||||||||| ||||||||| ||||||| | |||||
Sbjct: 43290278 aaattttaatgttatatatatagtgacattaattattttattacataattaacttattag
43290219

Query: 5234 ttcagttggtagagcattatgttaataa 5262

||||||| ||||| | ||||| |||||||
Sbjct: 43290218 cttagttgattagaacgttatattaataa 43290190

Score = 113 bits (57), Expect = 5e-22
Identities = 105/121 (86%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221

||||||||| ||||||||| ||||||||| ||||||| | ||||||||| |||||||||
Sbjct: 23188795 taaatatacattagaaatttcagtggttatatatagtgacaaaaattattttataacataa
23188736

Query: 5222 ttgatgtattagttcagttgggttagagcattatgttaataatgtgaaagtcaaaagttca
 5281
 ||| | ||||| ||||||||| || || ||||| |||| | ||| | |||||
 Sbjct: 23188735 ttggtctattagctcagttgggttagagtgttgctgtaataatgcgaaattcacaggttca
 23188676

Query: 5282 a 5282
 |
 Sbjct: 23188675 a 23188675

Score = 113 bits (57), Expect = 5e-22
 Identities = 163/196 (83%), Gaps = 13/196 (6%)
 Strand = Plus / Plus

Query: 4816 caatatcatagctttgtttagaaaaaaagagatttaataattaatagctaaagaaatcca
 4875
 ||||||||| ||||||||| ||||||||| ||||||| ||||||||| |
 Sbjct: 23837100 caatatcatagctttatttagaaaaaaagagatttaaatagttaatagttaagaaatcta
 23837159

Query: 4876 aaagtttttcttttatt-----tttattttgttcctattcaattctaattttgtca
 4926
 ||| ||||||||| || ||||||| ||||||| ||||||||| || ||
 Sbjct: 23837160 aaa-attttcttttatttctcttctctttattttcttcctatgcaattctaattctttc-
 23837217

Query: 4927 tttttttcactgtctctcgtact--tctctgtcttctcacctgtttcttcagtttacttg
 4984
 || ||||| | |||||| |||| ||||| ||||||||| || ||||||| |||||||
 Sbjct: 23837218 ttcttttctcattctctcacttctctctatcttctcacatgcttcttcaatttacttg
 23837277

Query: 4985 attattattttacttt 5000
 ||||| ||| |||||
 Sbjct: 23837278 attattctttcacttt 23837293

Score = 113 bits (57), Expect = 5e-22
 Identities = 96/109 (88%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
 5176
 ||||||||| ||||||||| ||||||| |||| || ||||||||| |||||||
 Sbjct: 40576787 aaaattaattgtcacaaaatttattatttaaatttatatgcgcattaaatatacattaga
 40576846

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||| ||||| ||||| ||||| ||| || ||||| ||||| ||
Sbjct: 25707060 aaaattaattgtcacaaaatttattatttaaatttacatatgcatcaaatacattaaa
25707001

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|| ||||| ||||| |||| | |||| | ||||| ||||| ||||| ||
Sbjct: 25707000 aaatttagtggttatatatagtaacattatttattttataaaataattgatctattagctc
25706941

Query: 5237 agttggtagag 5248
| ||| |||||
Sbjct: 25706940 aattgattagag 25706929

Score = 111 bits (56), Expect = 2e-21
Identities = 98/112 (87%)
Strand = Plus / Plus

Query: 6675 ggaatgacacatggaacatcattttgggttacctgattcttgatatccattttggtg
6734

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 28411453 ggaatgcaacacatggaacatcatttaggttgaccaattctcgaataaccattttggtg
28411512

Query: 6735 tgtatacgagaggagacatgacaacctttagaatttcttttcatttttggtg 6786
||||| ||||| ||||| || ||||| ||||| ||||| ||||| |||||
Sbjct: 28411513 tgtatatgagaggagacaggataacctttaaaatttcttatcatctttggtg 28411564

Score = 111 bits (56), Expect = 2e-21
Identities = 101/116 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 43290433 aaaattaattgtcacaaaatttattatgtaaatttacatgggtattaaatacattaaa
43290492

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
|| |||| ||||| || || || ||||| ||||| ||||| ||||| |||||

Sbjct: 43290493 aaatttaatgttatatataacgatattaattatTTTTataacataattgatctatta
43290548

Score = 109 bits (55), Expect = 8e-21
Identities = 173/211 (81%), Gaps = 1/211 (0%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataacataacattagaaatttttagtggtta
5189

||||||||| ||| ||||||| | | ||| ||||||| ||| |||||||||||||
Sbjct: 2387597 acaaaatttaatatgtaaatttatacgtacattaaatataaattataaatttttagtggtta
2387656

Query: 5190 tatttagtgaaattaattatTTTTataacataattgatgtattagttcagttgggttagagc
5249

||| ||||||| | || || ||| ||||| |||| | ||||||||||||||| || |||
Sbjct: 2387657 tatatagtgcactatttggtt-ataacttaatgtgtctattagttcagttgatttgagt
2387715

Query: 5250 attatgttaataatgtgaaagtcaaaagttcaattcttacttggatcattaatttttaaat
5309

|| | ||||||||| | || || ||||||||| | ||||||||| || |||||||||
Sbjct: 2387716 gttttattaataatgcaagaggcacaagttcaatccctacttggaccaataatttttaaat
2387775

Query: 5310 taatttgtaaaatatatTTTTgaaaaaaaaa 5340

||| ||||||| ||||||||||||| |||||
Sbjct: 2387776 taaattgtaaattatatTTTTgaaagaaaaa 2387806

Score = 109 bits (55), Expect = 8e-21
Identities = 112/131 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataacataacattaga
5176

||||||||| | | ||||||||||||| ||||||| |||| || |||||||||||||
Sbjct: 33035395 aaaattaattatcataaaatttattatttaaatttacatgtgcattaaatatacattaga
33035336

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTTataacataattgatgtattagttc
5236

||||||| ||||||||| || | ||||||||||||||||||||||||| ||||| |
Sbjct: 33035335 aattttattgttatatataacaatattaattatTTTTataacataattgacctattaacta
33035276

Query: 5237 agttgggttaga 5247
 |||||
 Sbjct: 33035275 agttgggttaga 33035265

Score = 107 bits (54), Expect = 3e-20
 Identities = 123/142 (86%), Gaps = 3/142 (2%)
 Strand = Plus / Plus

Query: 4758 taactgttaatctttttattgataccgtaa-taataattaataagtaataattttttatc
 4816
 |||||
 Sbjct: 10802164 taacttttaatctttttattggtaccgtaagtaacaattaatgagcaaaaactcttcacc
 10802223

Query: 4817 aatatcatagctttgtttagaaaaaagagatttaataattaatagctaaagaaatccaa
 4876
 |||||
 Sbjct: 10802224 aatatcatagctttgtttag-aaagaagagatttaatagtttaataag-aatccaa
 10802281

Query: 4877 aagtttttcttttatttttatt 4898
 ||
 Sbjct: 10802282 aaacttttcttttatttctatt 10802303

Score = 107 bits (54), Expect = 3e-20
 Identities = 111/130 (85%)
 Strand = Plus / Minus

Query: 5140 ttatctaaatttgcatgcacaataaatatacattagaaatttttagtggttatatttagtga
 5199
 |||||
 Sbjct: 23923416 ttatctaaatttacatgcgcatataaatatacattaaaaaatttagtggttacatataacga
 23923357

Query: 5200 aattaattattttataacataattgatgtattagttcagttgggttagagcattatgttaa
 5259
 |||||
 Sbjct: 23923356 catataattattttataacataattagtctattagcttagttgggttagagtggtgtgttaa
 23923297

Query: 5260 taatgtgaaa 5269
 |||||
 Sbjct: 23923296 taatgcaaaa 23923287

Score = 107 bits (54), Expect = 3e-20
Identities = 91/101 (90%), Gaps = 3/101 (2%)
Strand = Plus / Plus

Query: 1197 tcatacctttctcggccttttggctaa-gatcaagtgtagtatctgttcttatcagttta
1255
||||| ||||||||||||||| ||||||| ||||||||||||||| ||||||| || |||||||
Sbjct: 46169734 tcataactttctcggccttttgggctaaagatcaagtgtagtacctgtttt--cagttta
46169791

Query: 1256 atatctgatatgtgggtcattggcccacatgatattaaatt 1296
||||| ||||||| ||||||| ||||| |||||||
Sbjct: 46169792 atatctgatatgtgggtcattgggtccacacgatattaaatt 46169832

Score = 105 bits (53), Expect = 1e-19
Identities = 110/129 (85%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176
||||| ||||| | ||||| ||||| | ||||||| ||||| || ||||||| ||||| |
Sbjct: 41481475 aaaattaattatcaaaaaattattttgtaaatttacctgtgcattaaatatacattaaa
41481534

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||| ||||||| || ||||| ||||||| ||||||| ||||||| || ||||||| ||
Sbjct: 41481535 aatttttagtggttatatataatgacattaattattttataacataattaacctattagatc
41481594

Query: 5237 agttgggtta 5245
| |||||||
Sbjct: 41481595 aattgggtta 41481603

Score = 103 bits (52), Expect = 5e-19
Identities = 100/115 (86%), Gaps = 2/115 (1%)
Strand = Plus / Minus

Query: 7180 tgcgacttctctccccctttgggtgaacaatgcattacacctagtatagggttgattttac
7239
||||| ||||| ||||||| ||||||| ||||||| || ||||||| ||||||| ||


```
Query: 5175      gaaattttagtggttatatttagtgaaattaattattttataacataattgatgtattagt
5234           |||
Sbjct: 39103316 gaaattttattggttatataacgacattaattattttataacataattaacctattagt
39103257
```

Query: 5235 tcagttggttagagcattatgttaataa 5262
 | | ||| ||||| | ||||| |||||
Sbjct: 39103256 taaattgattagaactttatgctaataa 39103229

Score = 103 bits (52), Expect = 5e-19
Identities = 70/76 (92%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| ||||| ||||| ||||| ||||| || || ||||| ||||| |||||
Sbjct: 39118951 aaaattaattgtcacaaaattattatttaaatttacatgcgcattaaatatacattaga
39119010

Query: 5177 aatttttagtggttatat 5192
 ||||| ||||| ||||| |||||
Sbjct: 39119011 aatttttagtggttatat 39119026

Score = 101 bits (51), Expect = 2e-18
Identities = 87/99 (87%)
Strand = Plus / Minus

Query: 5125 ttgttacaaaatttattatctaaatttgcacataaatatacattagaaatttttag
5184
 |||| | ||||| ||||| | ||||| |||| | || || ||||| ||||| || |||||
Sbjct: 5202684 ttgtcacaaaatttattgtgttaaatttacatgtacattaaatatacattaaaagtttttag
5202625

Query: 5185 tggttatatttagtgaaattaattattttataacataatt 5223
 ||||| || ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 5202624 tggttatatataatgatattaattattttataatataatt 5202586

Score = 101 bits (51), Expect = 2e-18
Identities = 87/99 (87%)
Strand = Plus / Minus

Query: 7664 gagtttcccaaataatagaaaacatagtaattatttcctcatcatcttgacacatacatgc
7723
 |||| | || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 14892968 gagttgcctaaatatggaaaacatagttattatgtcctcatcatcttgacagtatgcacgc
14892909

Query: 7724 cctgtactgaaaacaatcaccaacaaatgatacgggaca 7762
| ||||| || || ||||| ||||| |||||
Sbjct: 14892908 cttgtactaaagactatcaccaacaaatgatatgggaca 14892870

Score = 101 bits (51), Expect = 2e-18
Identities = 298/376 (79%), Gaps = 7/376 (1%)
Strand = Plus / Plus

Query: 6757 aacctttagaatttcttttcatttttgggttggggcaaattcttggcttgtgacatggtg
6816
||| ||||| ||| | ||||| ||||| ||||| |||
Sbjct: 27583973 aacccttagaatttattttttgtttgggttggggcaaattcattggcttgtgacacagt
27584032

Query: 6817 accaacatgcttcattgcacaatttcccaagtaatcatttgtacatgttatagatacttt
6876
||| | ||||| ||||| ||| ||| | ||| | ||| |||
Sbjct: 27584033 gccaatacacttcattacacaattcttcaaacaatcctctgtataccttggagacacttt
27584092

Query: 6877 tcagcgtatacacaagatgtatgtagttcctatactcatggtgagcatgcttataaaca
6936
|| | ||||| ||||| ||||| ||||| ||||| ||||| |||
Sbjct: 27584093 ccaacatatacacaagatttatgtagttcctgtactcatggttaagcatgcttacaagcaa
27584152

Query: 6937 c---aacatgagaacaaaacatgtgcattttttgaaatttgtcacagtcacactaccttt
6993
| ||||| ||||| ||||| || ||||| ||| || | ||| | |||||
Sbjct: 27584153 caataacataagaacaaggcatgtacaatttttgggattttccatattcagaacaccttt
27584212

Query: 6994 catctagcttgaccatgaaatttctcactag-ttgaatctctctctccagttaattgtct
7052
||| ||||| ||||| ||||| ||| || ||||| || ||| | ||| |||||
Sbjct: 27584213 catccagcttgattgtgaaatttc-caccaggttgaacctttctt--cggtttattgtct
27584269

Query: 7053 cctagactaagaattgtatgtcgcattaatcgaactcaagaacaatgtgagagtttgcct
7112
||| ||| ||||| ||||| || ||| ||||| ||||| ||||| |||||
Sbjct: 27584270 cctggaccaagaattgtgtgtcgtatcgatcaaacttaagaacaatgtgagtggttgcct
27584329

Query: 7113 ttttctgtatgtcttt 7128
|| ||||| |||||
Sbjct: 27584330 ttctctgtgtgtcttt 27584345

Score = 99.6 bits (50), Expect = 8e-18

Identities = 161/198 (81%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 ||||||||||||| ||||||||||||| ||||||| ||||||| ||||||||||| | |
Sbjct: 41535100 aaaattaattggtcacaaaatttattattttaaatttaaatgcacattaaatatacatcata
41535041

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 ||||||| ||||||| | ||| | |||| | ||||||| || ||||||| ||||| ||
Sbjct: 41535040 aatttttaatggttatgtatagcaacattatttattttacaatgtaattgggtcattagctc
41534981

Query: 5237 agttgggttagagcattatggttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296
 |||| | ||||||| || | ||||||| || | ||||||| | |||| | |||| | |||| |
Sbjct: 41534980 agttagtttagagcgttgagctaataacatggaagtcataaggttcgagtccttgcttgggcc
41534921

Query: 5297 attaatttttaaattaatt 5314
 |||||||||||||||||
Sbjct: 41534920 attaatttttaaattaatt 41534903

Score = 97.6 bits (49), Expect = 3e-17
Identities = 76/85 (89%)
Strand = Plus / Minus

Query: 5013 aataattttaataaattattttatgaataaataaaagggttttattcttaaatttgcttga
5072
 ||||||||||||||||| ||||||||||||| ||||||||||| ||||||||||||||||| || |
Sbjct: 34735138 aataattttaataaaactattttatgagtaaataaaagactttattcttaaatttggttta
34735079

Query: 5073 gccctctcaagtccttgagccgccc 5097
 | ||||||||||||| |||| | |||||
Sbjct: 34735078 gccctctcaagtccttgaaccgccc 34735054

Score = 97.6 bits (49), Expect = 3e-17
Identities = 85/97 (87%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||| | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 39243115 aaaattaattatcacaaaatttattatgtaaatttgcacataaatatacattaga
39243056

Query: 5177 aatttttagtggttatatttagtgaaattaattatttta 5213
||||| | ||||| ||| || ||||| |||||
Sbjct: 39243055 aattttaattatataatagcgacgttaattatttta 39243019

Score = 97.6 bits (49), Expect = 3e-17
Identities = 67/73 (91%)
Strand = Plus / Plus

Query: 4314 atctttgcgcttgggacaataacgcagctagttaggttctaaccgaggtgtgtctattgc
4373
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 40000943 atctttgcgattggggcaatgacgcagctagttaggttctaactgagggcgctctattgc
40001002

Query: 4374 tggttgaaaacta 4386
||||| ||||| |||||
Sbjct: 40001003 tggttgaaaacta 40001015

Score = 97.6 bits (49), Expect = 3e-17
Identities = 190/235 (80%), Gaps = 4/235 (1%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41535358 aaaattaattgtcacaaaatttattatttaaatttacatgcgcataaatatacatcaga
41535417

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41535418 aattttaattgtatgtata---acaacatttattttacaacgtaattgactcattagctc
41535474

Query: 5237 agttggtttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggtatc
5296
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 41535475 agttggtttagagtgttgagctaataacctgaaagtcattatgtttgagttttgcttgagcc
41535534

Query: 5254 tgттаатаатgt 5265
 || |||||

Sbjct: 221823 tgctaataatgt 221812

Score = 95.7 bits (48), Expect = 1e-16
Identities = 114/136 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176

 ||||| | ||||| ||||| ||| | | ||||| |||||
Sbjct: 34209290 aaaattaattataacaaaatttattatttaaatttacatacgcatataacattaga
34209349

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

 | ||||| ||||| | | | ||||| ||||| ||||| | ||||| |
Sbjct: 34209350 aatttttagtggttatgtataacaacattatttattttgtaacgtaattgactcattagctt
34209409

Query: 5237 agttggtagagcatt 5252

 ||||| ||||| |||||
Sbjct: 34209410 agttggtagagcatt 34209425

Score = 95.7 bits (48), Expect = 1e-16
Identities = 111/132 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaataacattaga
5176

 ||||| ||||| ||||| ||||| ||| | | ||||| |||||
Sbjct: 43066282 aaaattaattgtcacaaaatttattatttaaatttacatgtgcattaaataacataaga
43066223

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

 ||||| ||||| | | | ||||| ||||| ||||| | ||||| |
Sbjct: 43066222 aatttttaattgttatgtataacaacattatttattttatgacataattgactcattagctc
43066163

Query: 5237 agttggtagag 5248

 | ||||| |||||
Sbjct: 43066162 aattggtagag 43066151

Score = 95.7 bits (48), Expect = 1e-16
Identities = 111/131 (84%), Gaps = 2/131 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaaatatacattaga
5176
 ||||| ||||| ||||| || ||||| ||||| ||
Sbjct: 44880123 aaaattaattgccacaaaatttattatgtaaatttacacatgcaataaaatatacattaaa
44880064

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 || ||||| || || ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 44880063 aaatttagtggttatat--aacgacattaattattttataacataattgacctatttgttc
44880006

Query: 5237 agttgggttaga 5247
 ||||| ||
Sbjct: 44880005 gattgggttaga 44879995

Score = 95.7 bits (48), Expect = 1e-16
Identities = 84/96 (87%)
Strand = Plus / Minus

Query: 1199 atacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagtttaata
1258
 ||||| || ||||| ||||| || || || ||||| ||||| ||||| |||||
Sbjct: 47109816 atacctttttcagtccttttggctaagatgaaggatattatgtgtttttatcagtttaata
47109757

Query: 1259 tctgatatgtgggtcattggcccatgatattaaa 1294
 | ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 47109756 tatgatatatgggtcattgggtcccatgatattaaa 47109721

Score = 93.7 bits (47), Expect = 5e-16
Identities = 110/131 (83%)
Strand = Plus / Plus

Query: 5119 aattaattgttacaaaatttattatctaaatttgcacataaaatatacattagaaa
5178
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 25395409 aattaattgtcacaaaatttattatttaaatttacatgtacattaaatatacattaaaaa
25395468

Query: 5179 ttttagtggttatatttagtgaaattaattatatttataacataattgatgtattagttcag
5238
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 25395469 atttagtattatgtataataacattatattttgataatgtaattgattcattagctcaa
25395528

Query: 5239 ttggttagagc 5249
 | | | | | | | | | |
Sbjct: 25395529 ttggttagagc 25395539

Score = 93.7 bits (47), Expect = 5e-16
Identities = 77/87 (88%)
Strand = Plus / Plus

Query: 6580 aaaatatttaaatttgaaataataacaacaaaatttttaaatacaacaatatggcataa
6639
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 27583780 aaaatatttaaatttgaaacaataaaacaaaatttttaaatacaagaatatgacaaaa
27583839

Query: 6640 aattaatggttggtggcctgagcctaca 6666
 | | | | | | | | | | | | | | | | | |
Sbjct: 27583840 acttaacgttggttagcttgagcctaca 27583866

Score = 93.7 bits (47), Expect = 5e-16
Identities = 128/155 (82%)
Strand = Plus / Minus

Query: 7085 aactcaagaacaatgtgagagtttgcctttttctgtatgtctttcatagccttgtttaat
7144
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 32201444 aactcaagaacaatgtgagtggttgcctttctctatgtgtcttcgatgaccttgtttagt
32201385

Query: 7145 acttttgtataaaacttcaccaaataatcactcttgcgacttctctccccctttggttg
7204
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 32201384 acttgcgatataaaacttggtcagatgtaagcattggtgcgacttttcttctcttttggttg
32201325

Query: 7205 aacaatgcattacacctagtaggttgattttac 7239
 | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 32201324 aacaatgcattagaccttatatgtgttgattttac 32201290

Score = 93.7 bits (47), Expect = 5e-16
Identities = 92/107 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 42245111 aaaattaattgtcacaaaatttattatgtaaatttacatgtgtattaaatatattaga
42245052

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataatt 5223
 |||||
Sbjct: 42245051 aatttttagtattatatataacaatattattttattttataacataatt 42245005

Score = 91.7 bits (46), Expect = 2e-15
Identities = 92/106 (86%), Gaps = 1/106 (0%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 885835 aaaattaattgtcacaaaatttattatttaaatttacatgtgcattaaatatattata
885776

Query: 5177 aa-ttttagtggttatatttagtgaaattaattattttataacataa 5221
 || |||||
Sbjct: 885775 aatttttagtggttatatataacaacattattttattttataacataa 885730

Score = 91.7 bits (46), Expect = 2e-15
Identities = 107/126 (84%), Gaps = 1/126 (0%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
 |||||
Sbjct: 3516037 aaaaattcattgtttttaaatttattatgtaaatttatatatattaaatatattata
3516096

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
5235
 |||||
Sbjct: 3516097 aaatttttagtggttatatata-tcacgttaattattttttaacataattgatttattagtt
3516155

Score = 91.7 bits (46), Expect = 2e-15
Identities = 117/138 (84%), Gaps = 2/138 (1%)
Strand = Plus / Minus

Query: 4762 tggttaatcttttattgataccgtaa-taataattaataagtaataatttttatcaata
4820

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 33034122 tggttaatcttttatttagtactgtaagtaacaattaaatgagcaacaactcttcaccaata
33034063

```
Query: 4821      tcatagctttggttagaaaaaaagagatttaataattaatagctaagaagtccaaaagt  
4880            ||| | | | | | | | | | | | | | | | | | | | | | | | |  
  
Sbjct: 33034062 tcataactttggttagaaaaaa-gagatttaatatgtaaaggttaagaagtcaaaaaac  
33034004
```

```
Query: 4881      ttttcttttatttttatt 4898
          |||||
Sbjct: 33034003 ttttcttttatttctatt 33033986
```

Score = 89.7 bits (45), Expect = 8e-15
Identities = 69/77 (89%)
Strand = Plus / Plus

```
Query: 5275      aagttcaattcttacttggatcattaatttttaaattaatttgtaaaatatatttttgaaa
5334
                |||
Sbjct: 8553036  aagttcaattcttgcttggaccattaatttttaaattaaatcgtaaattatgtttttgaaa
8553095
```

```
Query:  5335      aaaaaattataaaaaaa 5351
          |||||  ||  |||||
Sbjct: 8553096  aaaaaataaaaaaaaaa 8553112
```

Score = 89.7 bits (45), Expect = 8e-15
Identities = 45/45 (100%)
Strand = Plus / Minus

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctc 1807
|||||
Sbjct: 9732003 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctc 9731959

Score = 89.7 bits (45), Expect = 8e-15
Identities = 72/80 (90%), Gaps = 2/80 (2%)
Strand = Plus / Plus

Query: 6516 acaagttgacttgaactaaaatatttaaattacaaaatagatatgaaattacaaacaata
6575
|||| | ||| ||||| ||||| ||||| ||||| ||| ||||| |||||
Sbjct: 27583659 acaatttgaattgaactaatatatttaaattataaaaatatata--aaattaccaacaata
27583716

Query: 6576 gaacaaaatatttaaatttg 6595
|||||
Sbjct: 27583717 gaacaaaatatttaaatttg 27583736

Score = 87.7 bits (44), Expect = 3e-14
Identities = 68/76 (89%)
Strand = Plus / Plus

Query: 5275 aagttcaattcttacttggatcattaattttaaattaatttgtaaaatatatttttgaaa
5334
||||| ||||| ||||| ||||| || ||||| ||| |||||
Sbjct: 4743933 aagttcaattcttcttggaccattaatcttaaattgaaattgtaaaattataattttgaaa
4743992

Query: 5335 aaaaaattataaaaaa 5350
||||| |||||
Sbjct: 4743993 aaaaaattataaaaaa 4744008

Score = 87.7 bits (44), Expect = 3e-14
Identities = 74/84 (88%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaattttagtgttatatatttagtgaaattaattattttataacataa
5221
|||| | ||||| ||||| ||||| ||| || ||||| ||||| |||||
Sbjct: 11283481 taaatttacattagaaattttagtgttatatatagcgacattaattattttataatataa
11283422

Query: 5222 ttgatgtattagttcagttgggta 5245
 || | ||||| ||| |||||
Sbjct: 11283421 ttagtctattagctcaattgggta 11283398

Score = 87.7 bits (44), Expect = 3e-14
Identities = 59/64 (92%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaatTTtagtggtatatTTtagtgaaattaattatTTTataacataa
5221
 ||||||| ||||||||||||||||||||| || ||| ||||||||||||| |||||||
Sbjct: 26749432 taaatatatatagaaatTTtagtggtatatataatgacattaattatTTTtaacataa
26749491

Query: 5222 ttga 5225
 |||
Sbjct: 26749492 ttga 26749495

Score = 87.7 bits (44), Expect = 3e-14
Identities = 50/52 (96%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcgggtacatggatcaacttccgccata 1694
 |||| ||||||||||||||||||||||||||||||||||||| |||
Sbjct: 32910067 aacgtcttatccactaggtggggtcgggtacatggatcaacttccgtcata 32910118

Score = 85.7 bits (43), Expect = 1e-13
Identities = 79/91 (86%)
Strand = Plus / Minus

Query: 5133 aaatttattatctaaatttgcatgcacaataaatatacattagaaatTTtagtggtatat
5192
 ||||||| |||||||||||| || ||||||| ||| |||||||||||||
Sbjct: 40229922 aaatttattatTTaaatttgcatgtgcattaaatatatTTaaaaatTTtagtggtatat
40229863

Query: 5193 ttagtgaaattaattatTTTataacataatt 5223
 || | | ||| ||||||||| |||||
Sbjct: 40229862 ataataatattatTTTatTTTataatataatt 40229832

Score = 83.8 bits (42), Expect = 5e-13
Identities = 57/62 (91%)
Strand = Plus / Plus

Query: 4956 tcttctcacctgtttcttcagtttacttgattattatctttactttgatacattagccaat
5015
Sbjct: 10802377 tcttctcacctgttcttcagtttactttattattgtttcactttgacacattagccaat
10802436

Query: 5016 aa 5017
Sbjct: 10802437 aa 10802438

Score = 83.8 bits (42), Expect = 5e-13
Identities = 114/138 (82%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
Sbjct: 37383104 aaaattattgttacaaaatttattaaataaatttacatctgtattaaatatatattaaa
37383163

Query: 5177 aatttttagtgttatatatttagtgaaattaattatctttataacataattgatgtattagttc
5236
Sbjct: 37383164 aatttttagtattatatataacgatattaattaatttataatataattgatttattaatcc
37383223

Query: 5237 agttgggtagagcattat 5254
Sbjct: 37383224 aattagtttagagtattat 37383241

Score = 83.8 bits (42), Expect = 5e-13
Identities = 42/42 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaac 1684
Sbjct: 43378756 aacgccttatcccactaggtggggctcggctacatggatcaac 43378715

Score = 81.8 bits (41), Expect = 2e-12
Identities = 50/53 (94%)
Strand = Plus / Minus

Query: 6421 agagttgaaatcctttgtatTTTTATTTTgattattataatacataatt 6473
|||||
Sbjct: 106013 agagttgaaatcctttgtatTTTtattttatttgattattaaaatatataatt 105961

Score = 81.8 bits (41), Expect = 2e-12
Identities = 68/77 (88%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattag
5175
|||||
Sbjct: 8973854 aaaaattaatcatcacaaaatttattatataaaatttgcatgtacattaaatataaattaa
8973795

Query: 5176 aaatTTtagtggttatat 5192
|||||
Sbjct: 8973794 aaatTTtagtgtaatat 8973778

Score = 81.8 bits (41), Expect = 2e-12
Identities = 71/81 (87%)
Strand = Plus / Plus

Query: 5014 ataatTTtaataaattatTTTatgaataaaataaaaggTTTTattcTTaaatttgcttgag
5073
|||||
Sbjct: 23837773 ataatTTtaataaaactatTTTataagtaaaataaaatatcTTattcTTaaatttactttag
23837832

Query: 5074 ccctctcaagtccttgagccg 5094
|||||
Sbjct: 23837833 gcctctcaaataccttgagccg 23837853

Score = 81.8 bits (41), Expect = 2e-12
Identities = 77/89 (86%)
Strand = Plus / Minus

Query: 6580 aaaatattttaaatttgaaataataacaacaaaaattttaaaatacaaacatattggcataa
 6639

|||||
 Sbjct: 34563067 aaaatattttaaatttgaattaatacaataaaattttacaaataaaaacaatatggcatac
 34563008

Query: 6640 aattaatggttggttgacctgagcctacaca 6668

| ||| |||||
 Sbjct: 34563007 atttagtggttggttggtttaagcctacaca 34562979

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 137/169 (81%)
 Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacatag
 5175

|||||
 Sbjct: 36543966 aaaaattaattatgacaaaatttattaggttaaagttacatctgtattaaatatattag
 36544025

Query: 5176 aaatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagtt
 5235

|||||
 Sbjct: 36544026 aaattttaattattatatataacgacattaattaatctataacataattgatctattagat
 36544085

Query: 5236 cagttgggttagagcattatgttaataatgtgaaagtcaaaagttcaatt 5284

|| || |||||
 Sbjct: 36544086 caattaattagagtggttggttaataaggtaaaagtcactagttcaatt 36544134

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 98/117 (83%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacataga
 5176

|||||
 Sbjct: 42245861 aaaattaattgttataaaaatttattatttaaatttacatgtatattctatatacatataa
 42245920

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattag
 5233

| |||||
 Sbjct: 42245921 atttttagtggtttatataacaacattattttattataatataattgatctattag
 42245977

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 107/129 (82%)
 Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
 5176
 ||||| | | ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 42419252 aaaattaattatcataaaatttattatttaaatttatatgcgcattaaatatacattaaa
 42419311

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
 5236
 || ||||| ||||| | ||||| ||||| ||||| ||||| |||||
 Sbjct: 42419312 aaatttaattggttatatataacaacattattttattttataacataattatcatattagttta
 42419371

Query: 5237 agttgggtta 5245
 |||||
 Sbjct: 42419372 agttgggtta 42419380

Score = 81.8 bits (41), Expect = 2e-12
 Identities = 107/129 (82%)
 Strand = Plus / Minus

Query: 5202 ttaattattttataacataattgatgtattagttcagttgggttagagcattatgttaata
 5261
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 42521954 ttaattattttataacataattgtttaattagtttagttgattagagcgtagaccaata
 42521895

Query: 5262 atgtgaaagtcaaaagttcaattccttacttggtatcattaatttttaaattaatttgtaaaa
 5321
 || | ||||| || ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 42521894 atataaaagccacaagttcaattcctattttaaatcattaatttttaaattaattaataaaa
 42521835

Query: 5322 tatatttttt 5330
 |||||
 Sbjct: 42521834 catatttttt 42521826

Score = 81.8 bits (41), Expect = 2e-12

Identities = 86/101 (85%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacatgcacaataaatatacattaga
5176
 ||||||||||| ||||| ||||||| ||||||| ||||| || ||||||||||| |
Sbjct: 44569095 aaaattaattgtcacaaaaattattatgtaaatttacatgtgcacatcaaatatacattaaa
44569036

Query: 5177 aattttagtggttatatttagtgaaattaattattttataac 5217
 || ||||||||||| | || |||||||||||
Sbjct: 44569035 aaattagtggttatataaaacgatattaattattttataac 44568995

Score = 79.8 bits (40), Expect = 7e-12
Identities = 52/56 (92%)
Strand = Plus / Plus

Query: 5297 attaatTTTTaaattaatttGTaaaatatattttgaaaaaaaaattataaaaaaat 5352
 ||||||||||| ||||||||||| |||||||
Sbjct: 4629823 attaatTTTTaaattaatttGTaaaacatatattttgaaaaaaaaattataaaaaaat
4629878

Score = 79.8 bits (40), Expect = 7e-12
Identities = 95/112 (84%), Gaps = 1/112 (0%)
Strand = Plus / Plus

Query: 6550 aaatagatatgaaattacaaacaatagaacaaaatatTTaaatttgaaataataacaaca
6609
 ||||||| || |||| | || ||||||||||| ||||||| || |||||||
Sbjct: 21342832 aaatagagataaaatcataaataatagaacaaaatatTTaaatttcaacaataacaaca
21342891

Query: 6610 aaattttaaaatacaaaacaatatggcataaaattaatgttggttgacctgagc 6661
 || || |||| | || |||||| | ||||||| ||||||| |||||
Sbjct: 21342892 aatttataaatta-gaacaatacgacataaaattaacattgttgacctgagc 21342942

Score = 77.8 bits (39), Expect = 3e-11
Identities = 57/63 (90%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtta
5189

```

|||||
Sbjct: 6677004 acaaaatttattatgtaaatttacatatacattaaatataaaattagaaaattttagtgtta
6677063
```

```

Query: 5190      tat 5192
              |||
Sbjct: 6677064 tat 6677066
```

Score = 77.8 bits (39), Expect = 3e-11
Identities = 48/51 (94%)
Strand = Plus / Plus

```

Query: 1643      aacgccttatccactaggtggggtcggctacatggatcaacttccgccat 1693
              |||||||
Sbjct: 18950562 aacgccttatccactaggtaggatcgactacatggatcaacttccgccat 18950612
```

Score = 77.8 bits (39), Expect = 3e-11
Identities = 63/71 (88%)
Strand = Plus / Minus

```

Query: 4946      tacttctctgtcttctcacctgtttcttcagtttacttgattattatctttgatac
5005
              |||||||
Sbjct: 33033925 tacttctctgtcttctcacatgattcttcagtttacttgattattgtttcattctgacac
33033866
```

```

Query: 5006      attagccaata 5016
              |||||
Sbjct: 33033865 attagtcaata 33033855
```

Score = 77.8 bits (39), Expect = 3e-11
Identities = 127/155 (81%), Gaps = 1/155 (0%)
Strand = Plus / Plus

```

Query: 5117      aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
              |||||||
Sbjct: 37557644 aaaattaattatcataaaatttattaaataaatttacatgtgcattaaatata-attaga
37557702
```

```

Query: 5177      aatttttagtgttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
```

||||||| | ||||| || | ||||||||||||||| ||||||| | |||||
Sbjct: 37557703 aattttaatcttatatataacaacattaattattttatagcataattgggtttattagtgt
37557762

Query: 5237 agttggtagagcattatgttaataatgtgaaagt 5271
|||| ||||| || | ||||| |||||
Sbjct: 37557763 agttagttagaacatcatattaataacctgaaagt 37557797

Score = 77.8 bits (39), Expect = 3e-11
Identities = 89/105 (84%), Gaps = 3/105 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
||||||||||||||||||||||||||| ||| || | ||||| |||||
Sbjct: 39968329 aaaattaattgttacaaaatttattatataaacttatatata---taaataaaattaaa
39968385

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataa 5221
||||||| ||||| ||| | ||||||||||| |||||
Sbjct: 39968386 aatttttagtattatataatagtaattatattttttaacataa 39968430

Score = 77.8 bits (39), Expect = 3e-11
Identities = 105/127 (82%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
||||||||||||||||||||||||||| || | ||| ||||||||||| |||
Sbjct: 40903133 taaatatacattagaaatttttagtggttatgcataacaacattatttattttataacgtaa
40903074

Query: 5222 ttgatgtattagttcagttggtagagcattatgttaataatgtgaaagctaaaagttca
5281
||| | |||| | ||||||||||| || ||||||| ||||| | |||||
Sbjct: 40903073 ttggttcattagctcaattggtagagctttgtgtaataacctgaaagctacaagttca
40903014

Query: 5282 attctta 5288
| |||||
Sbjct: 40903013 agtctta 40903007

Score = 77.8 bits (39), Expect = 3e-11
Identities = 69/79 (87%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacataa
5221
||||| ||| ||||||| ||||||| ||||| ||||||| |||||||
Sbjct: 41621359 taaatataaaattataaaatTTtagagTTtatatatagtgatgTTaattTTTTtaacataa
41621300

Query: 5222 ttgatgtattagttcagtt 5240
||| |||||||
Sbjct: 41621299 ttgtcatattagttcagtt 41621281

Score = 77.8 bits (39), Expect = 3e-11
Identities = 84/99 (84%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatTTtattatctaaatTTgcatgcacaataaatatacattaga
5176
||||| ||||||| ||| ||||||| | ||| || ||||||| |||
Sbjct: 42419051 aaaattaattgtcacaaaatTTgttatttaaattTacttgcgcattaaatacattata
42418992

Query: 5177 aatTTtagtgTTtatTTtagtgaaattaattTTTTata 5215
||||| |||| || | ||| |||||||
Sbjct: 42418991 aatTTtagtaatatatatagcaatattattTTTTata 42418953

Score = 75.8 bits (38), Expect = 1e-10
Identities = 100/118 (84%), Gaps = 7/118 (5%)
Strand = Plus / Minus

Query: 6325 tatatTTgtgTTctgTTTaaattgaaaacaatattTTTTcatatgTTgTTaattctta
6384
||||| ||| ||||||| | ||| ||||||| ||||||| |||
Sbjct: 106424 tatatTTatgTTTtGTTTaaactTaaataatattTTTTgcatatgTTgTTg---tta
106369

Query: 6385 atTTcttatgcatatTTtatgTTTtatcattTTTT-aagagTTgaaatcTTTgtatt 6441
|||| || |||| ||| ||||||| ||||||| ||||||| |||||||
Sbjct: 106368 atTTTT--gcataCTTTTgTTTataaTTTTTgaagagTTgaaatcTTTgtatt
106313

Score = 75.8 bits (38), Expect = 1e-10
Identities = 80/94 (85%)
Strand = Plus / Plus

Query: 5132 aaaatttattatctaaatttgcatagcacaataaatatacattagaaatttttagtggtata
5191
 |||||
Sbjct: 6841720 aaaatttattatttaaatttacatgcgcattaaatatgcattagaaattgtagtgatg
6841779

Query: 5192 ttttagtgaaattaattattttataacataattga 5225
 |||
Sbjct: 6841780 tataataacattatttattttataacatcattga 6841813

Score = 75.8 bits (38), Expect = 1e-10
Identities = 56/62 (90%)
Strand = Plus / Minus

Query: 5162 taaatatacattagaaatttttagtggttatatttagtgaaattaattattttataacataa
5221
 |||||
Sbjct: 20057452 taaatataatataaaatttttagtggttatatatagttatattaattattttataacataa
20057393

Query: 5222 tt 5223
 ||
Sbjct: 20057392 tt 20057391

Score = 75.8 bits (38), Expect = 1e-10
Identities = 56/62 (90%)
Strand = Plus / Minus

Query: 5165 atatacattagaaatttttagtggttatatttagtgaaattaattattttataacataattg
5224
 |||||
Sbjct: 34825488 atatacattaaaaattttaatgttacatatagtgatattaattattttataatataattg
34825429

Query: 5225 at 5226
 ||
Sbjct: 34825428 at 34825427

Score = 75.8 bits (38), Expect = 1e-10
Identities = 65/74 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 36457223 aaaattaattgtcacaaaatttattatttaaatttacacgggtattaaatatacattata
36457282

Query: 5177 aatttttagtggttat 5190
 |||||
Sbjct: 36457283 aatttttagtggttat 36457296

Score = 75.8 bits (38), Expect = 1e-10
Identities = 65/74 (87%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcatgcacaataaatatacattaga
5176
 |||||
Sbjct: 40903167 aaaattaattgtcgaaaaatttattatttaaatttacatgcgcattaaatgcattaaa
40903226

Query: 5177 aatttttagtggttat 5190
 |||||
Sbjct: 40903227 aatttttagtattat 40903240

Score = 75.8 bits (38), Expect = 1e-10
Identities = 109/130 (83%), Gaps = 2/130 (1%)
Strand = Plus / Minus

Query: 5202 ttaattatTTTTATAACATAATTGATGTATT-AGTTCAGTTGGTTAGAGCATTATGTTAAT
5260
 |||||
Sbjct: 42581360 ttaactatTTTTATAACATAATTG-TCTATTAGTTTAGTTGATTAGAGCGTTAGACCAAT
42581302

Query: 5261 aatgtgaaagtcAAAAGTTCAATTCTTACTTGGATCATTAATTTTAAATTAATTTGTA
5320
 |||
Sbjct: 42581301 aacatgaaagtcACAAGTTCAATTCTTATTAGATTATTAATTTTAAATTAATTCATAAA
42581242

Query: 6678 atgcgacacatggaacatcattttggtttacctgattcttggatatccattttggtgtgt
6737

Sbjct: 2313531 atgcgatacattaaacattatTTTTggttgatccaattcttagatattcatgttgatgtgc
2313472

Query: 6738 atacgagaggagacatgacaacctttagaatttcttttcatttttgggttggggcaaatt
6797

Sbjct: 2313471 atacgagagaagatagggcaacctttataattttttttcatctttggctcggaacaaatt
2313412

Query: 6798 cttggccttgtagacatgggtga 6817
 ||||| | |||||
Sbjct: 2313411 cttggctcgcgacatgggtga 2313392

Score = 71.9 bits (36), Expect = 2e-09
Identities = 54/60 (90%)
Strand = Plus / Plus

Query: 5282 attccttacttggatcattaatttttaaattaatttgtaaaatatatTTTTTgaaaaaaaaaat
5341

Sbjct: 6677154 attctttcttgaccattaatttttaaattaaatcataaattatatatttttgaaaaaaaaat
6677213

Score = 71.9 bits (36), Expect = 2e-09
Identities = 57/64 (89%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcattgcacaataaatatacattaga
5176

Sbjct: 39243187 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
39243128 aaaattaattgtcacaaaatttattatgtaaatttacatgtgcattaaatacatataacattaaa

```
Query: 5177      aatt 5180
          ||||
Sbjct: 39243127 aatt 39243124
```

Score = 71.9 bits (36), Expect = 2e-09
Identities = 90/107 (84%), Gaps = 2/107 (1%)

Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| || ||||| ||||| || || | ||||| |||||
Sbjct: 39774301 aaaattaattattataaaaatttattatgtaaaatt--atgtgtattaaatatacataaga
39774244

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataatt 5223
 ||||| ||||| || || ||||| ||||| |||||
Sbjct: 39774243 aattttagtattatataatggatattaattatttttaacataatt 39774197

Score = 71.9 bits (36), Expect = 2e-09
Identities = 87/102 (85%), Gaps = 4/102 (3%)
Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacataaatatacattaga
5176
 ||||| | ||||| ||||| ||||| || | ||||| |||||
Sbjct: 43590577 aaaattaattatcacaaaatttattatataaaattt--atgtgtattaaatatacattaga
43590634

Query: 5177 aattttagtggttatatttagtgaaattaattattttataaca 5218
 ||||| ||||| || || ||||| ||||| |||||
Sbjct: 43590635 aatttta--gttatataaaagacattaattattttataaca 43590674

Score = 71.9 bits (36), Expect = 2e-09
Identities = 72/84 (85%)
Strand = Plus / Plus

Query: 5140 ttatctaaatttgcacataaatatacattagaaattttagtggttatatttagtga
5199
 ||||| ||||| || ||||| ||||| || || ||||| || |
Sbjct: 44569365 ttatctaaatttacatggttcattaaatatacattaaaaaaatttgtgttatataataa
44569424

Query: 5200 aattaattattttataacataatt 5223
 ||||| ||||| ||||| |||||
Sbjct: 44569425 tattaattattttataacataatt 44569448

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)

Strand = Plus / Plus

Query: 5130 acaaaatattatctaaatttgcacataacattagaaatatttagtgta
5189

|||||
Sbjct: 5038322 acaaaatattatgatgtaaatttacatgtacattaaatataaaatatttagtgta
5038381

Query: 5190 tat 5192

|||
Sbjct: 5038382 tat 5038384

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Minus

Query: 5130 acaaaatattatctaaatttgcacataacattagaaatatttagtgta
5189

|||||
Sbjct: 6676144 acaaaatattatgatgtaaatttacatatacattaaatataaaatatttagtgta
6676085

Query: 5190 tat 5192

|||
Sbjct: 6676084 tat 6676082

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Minus

Query: 5130 acaaaatattatctaaatttgcacataacattagaaatatttagtgta
5189

|||||
Sbjct: 13474889 acaaaatattatataaaatttacatgtacattaaatataaaatatttagtgta
13474830

Query: 5190 tat 5192

|||
Sbjct: 13474829 tat 13474827

Score = 69.9 bits (35), Expect = 7e-09
Identities = 47/51 (92%)

Strand = Plus / Minus

Query: 6556 atatgaaattacaaacaatagaacaaaatatttaaatttgaaataatacaa 6606
 ||||| ||||||| ||||||||||| ||||||||||| |||||||
Sbjct: 32201925 atataaaattaccaacaatagaataaaaatatttaaatttgaaacaatacaa 32201875

Score = 69.9 bits (35), Expect = 7e-09
Identities = 53/59 (89%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaataatacatta
5174
 ||||| ||||||| | ||||||||||| ||||||| ||||| || |||||||||||
Sbjct: 33391183 aaaaattaattatcacaaaatttattatttaaatttacatgcgcattaaatacatta
33391241

Score = 69.9 bits (35), Expect = 7e-09
Identities = 56/63 (88%)
Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacataaataatacattagaaattttagtgtta
5189
 ||||| ||||||| ||||||| ||| ||| ||||||| ||||| ||||| |||||||
Sbjct: 40073457 acaaaatttattatgtaaatttacatgtacattaaataataaattaggaatttcagtgtta
40073516

Query: 5190 tat 5192
 |||
Sbjct: 40073517 tat 40073519

Score = 67.9 bits (34), Expect = 3e-08
Identities = 37/38 (97%)
Strand = Plus / Minus

Query: 5313 tttgtaaaatatatTTTTGAAAAAAAAATTATAAAAAA 5350
 ||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 1660768 tttgtaaaatatatTTTTGAAAAAAAAATTATAAAAAA 1660731

Score = 67.9 bits (34), Expect = 3e-08
Identities = 107/130 (82%), Gaps = 1/130 (0%)

Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacataaataacattaga
 5176

 ||||| || ||||| || || || ||
 Sbjct: 19410464 aaaattaattgctataaaaatttattatgtaaacttatatgtgtattaaatatatattaga
 19410405

Query: 5177 aatttttagtggttatatttagtgaaattaatta-ttttataacataattgatgtattagtt
 5235

 ||||| || || || || || || ||
 Sbjct: 19410404 aatttttagtggttatgtatagcaacactaattatTTTTTTaccataattgtcgtattagct
 19410345

Query: 5236 cagttgggta 5245
 |||||
 Sbjct: 19410344 cagttgggta 19410335

Score = 67.9 bits (34), Expect = 3e-08
 Identities = 85/101 (84%), Gaps = 2/101 (1%)
 Strand = Plus / Plus

Query: 5117 aaaattaattggtacaaaatttattatctaaatttgcacataaataacattaga
 5176

 ||||| || ||||| ||||| || || ||
 Sbjct: 39343860 aaaattaattgtcacaa--tttattatataaaatttacatgtgcattaaataacattaga
 39343917

Query: 5177 aatttttagtggttatatttagtgaaattaattatTTTtataac 5217

 ||||| || || || || ||
 Sbjct: 39343918 aattttaattattatatataacaacattaaatattTTtataac 39343958

Score = 65.9 bits (33), Expect = 1e-07
 Identities = 42/45 (93%)
 Strand = Plus / Minus

Query: 7294 tgtcccatcgccagccaccatcccatgagagagtcacttttct 7338

 ||||| || ||||| ||||| ||
 Sbjct: 105143 tgtcccatcgctcggccaccatcccatgagagagtcacttttct 105099

Score = 65.9 bits (33), Expect = 1e-07
 Identities = 39/41 (95%)

Strand = Plus / Plus

Query: 5297 attaatttttaaattaatttgtaaaatatatTTTTGAAAAA 5337
 |||||
Sbjct: 222007 attaatttttaaattaattcgtaaaatatatTTTTCAAAAA 222047

Score = 65.9 bits (33), Expect = 1e-07
Identities = 57/65 (87%)
Strand = Plus / Plus

Query: 5168 tacattagaaatTTtagtgTTtatTTtagtgaaattaattTTTTataacataattgatg
5227
 |||||
Sbjct: 1334207 tacattagaaatTTtagtattatataaaacaacattaattTTTTataacataattgatc
1334266

Query: 5228 tatta 5232
 |||||
Sbjct: 1334267 tatta 1334271

Score = 65.9 bits (33), Expect = 1e-07
Identities = 36/37 (97%)
Strand = Plus / Plus

Query: 5013 aataatttttaataaattatTTtatgaataaataaaaag 5049
 |||||
Sbjct: 1432962 aataatttttaataaattatTTTataaataaataaaaag 1432998

Score = 65.9 bits (33), Expect = 1e-07
Identities = 48/53 (90%)
Strand = Plus / Plus

Query: 5289 cttggatcattaatttttaaattaatttgtaaaatatatTTTTGAAAAAAAAA 5341
 |||||
Sbjct: 4752941 cttggaccattaatttttaaattaatcataaattatTTTTGAAAAAAAAA 4752993

Score = 65.9 bits (33), Expect = 1e-07
Identities = 60/69 (86%)
Strand = Plus / Minus

Score = 63.9 bits (32), Expect = 4e-07
Identities = 60/68 (88%), Gaps = 1/68 (1%)

Strand = Plus / Plus

Query: 7308 gccaccatcccatgcgagagtcactttt-cttgtggaatcttcctaagctaattaattg
7366

|||||
Sbjct: 28412104 gccaccatcccatgcaagagtcattttttctcgcgaaatcttcctaagccaattaattg
28412163

Query: 7367 ttagttca 7374

|||||
Sbjct: 28412164 ctagttca 28412171

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Minus

Query: 6431 tcctttgtatTTTTATTTTATTTGATTATTATAATACATA 6470

|||||
Sbjct: 32202066 tcctttgtatTTTcattttatttgattattaaaatacata 32202027

Score = 63.9 bits (32), Expect = 4e-07
Identities = 38/40 (95%)
Strand = Plus / Plus

Query: 6434 tttgtatTTTTATTTTATTTGATTATTATAATACATAATT 6473

|||||
Sbjct: 36546377 tttgtatTTTTATTTTATTTGATTATTAAAATATATAATT 36546416

Score = 62.0 bits (31), Expect = 2e-06
Identities = 37/39 (94%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggtcggctacatggatcaac 1684

|||||
Sbjct: 1021596 gccttatcccactaggtgaggtctgctacatggatcaac 1021558

Score = 62.0 bits (31), Expect = 2e-06
Identities = 55/63 (87%)
Strand = Plus / Plus

Query: 5130 acaaaatattattatctaaatttgcacatgcacataaataacattagaaatatttagtggtta
 5189
 |||||
 Sbjct: 4743789 acaaaatattattatgtaaatttacatatacattaaatataaaattaaatatttagtggtta
 4743848

Query: 5190 tat 5192
 |||
 Sbjct: 4743849 tat 4743851

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 55/63 (87%)
 Strand = Plus / Plus

Query: 5130 acaaaatattattatctaaatttgcacatgcacataaataacattagaaatatttagtggtta
 5189
 |||||
 Sbjct: 4752783 acaaaatattattatgtaaatttacttatacattaaatataaaattagagatttagtggtta
 4752842

Query: 5190 tat 5192
 |||
 Sbjct: 4752843 tat 4752845

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 34/35 (97%)
 Strand = Plus / Minus

Query: 5302 ttttaaattaatttgtaaaatatatttttgaaaaa 5336
 |||||
 Sbjct: 29360355 ttttaaattaattcgtaaaatatatttttgaaaaa 29360321

Score = 62.0 bits (31), Expect = 2e-06
 Identities = 43/47 (91%)
 Strand = Plus / Minus

Query: 5296 catataattttaaatatttgtaaaatatatttttgaaaaaaaaaatt 5342
 |||||
 Sbjct: 38687108 catataattttaaatatttgtaaaatatatttttgaaaaaaaaaatt 38687062

Score = 62.0 bits (31), Expect = 2e-06
Identities = 34/35 (97%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaattt 5151
 |||||
Sbjct: 38794021 aaaattaattggttacaaaatttattatgttaaattt 38793987

Score = 60.0 bits (30), Expect = 7e-06
Identities = 102/125 (81%), Gaps = 2/125 (1%)
Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaatatacattaga
5176
 |||||
Sbjct: 3561165 aaaattaattgatataaaaatttattatgtaaaattatgtgtgtattaaatatacattaga
3561106

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236
 |||||
Sbjct: 3561105 aatttttagtggtata--tatcgacgttaattattttttaacataattagtctattagctc
3561048

Query: 5237 agttg 5241
 |||||
Sbjct: 3561047 agttg 3561043

Score = 60.0 bits (30), Expect = 7e-06
Identities = 51/58 (87%)
Strand = Plus / Plus

Query: 5159 caataaatatacattagaaatttttagtggttatatttagtgaaattaattattttataa
5216
 |||||
Sbjct: 5622772 caataaatatacattaaaaatttttagtggttatgtataataacattattttattttataa
5622829

Score = 60.0 bits (30), Expect = 7e-06
Identities = 75/90 (83%)
Strand = Plus / Plus

Query: 5159 caataaatatacattagaaatttttagtgttatatttagtgaaattaattattttataaca
5218

Sbjct: 5665571 caataaaatatattagaaattttaatgttatgtataagaacattattttattttataata
5665630

Query: 5219 taattgatgtattagttcagttggtagag 5248

Sbjct: 5665631 taattgacttattaacttagttggttagag 5665660

Score = 60.0 bits (30), Expect = 7e-06
Identities = 96/118 (81%), Gaps = 10/118 (8%)
Strand = Plus / Plus

Query: 4817 aatatcatagctttgtttagaaaaaaagagatttaataattaatagctaagaaatccaa
4876

Sbjct: 37328791 aatatcattcctttatttagaaaaaaa-agatttaatagttaataactaaagaaatttaa
37328849

Query: 4877 aagtttttctttta-----ttttattttgttcctattcaattctaattttgtc
4925

Sbjct: 37328850 aaaaatttcttttatttatgttctttttattctcttcctattcaattctaattttgtc
37328907

Score = 60.0 bits (30), Expect = 7e-06
Identities = 45/50 (90%)
Strand = Plus / Plus

Query: 2473 tatgtcaaagggtccaatattgaaagaattttagggggtttttcttgacttt 2522

Sbjct: 37758068 tatgtccaaggtccaatatggaagaatttcagaggttttccttgacttt 37758117

Score = 60.0 bits (30), Expect = 7e-06
Identities = 66/78 (84%)
Strand = Plus / Minus

Query: 5237 agttggttagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc
5296

Sbjct: 41481443 agttggtttagaggattatgatattaacttgaaagtcatatattcgaatcttgcattggatc
 41481384

Query: 5297 attaatttttaaattaatt 5314
 |||||||
 Sbjct: 41481383 attaatttttaaattaatt 41481366

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 59/69 (85%)
 Strand = Plus / Minus

Query: 5165 atatacattagaaatTTtagtggttatatttagtgaaattaattattttataacataattg
 5224
 ||||||| || ||||||| ||||||| || || ||||||| |||||||
 Sbjct: 5124707 atatacattaaaatTTtagtattatatataacgactttaattattttaataacataattg
 5124648

Query: 5225 atgtattag 5233
 || |||||
 Sbjct: 5124647 atttattag 5124639

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 77/93 (82%)
 Strand = Plus / Plus

Query: 6678 atgCGacacatggaacatcattttgggtttacctgattcttggatatccattttgggtgtgt
 6737
 ||||||| || ||||||| ||| | | | | | | | | | |
 Sbjct: 18370584 atgCGacacattgaatatcatttttagttgatccggttttcagatattcattttgggtgtgt
 18370643

Query: 6738 atacgagaggagacatgacaacctttagaattt 6770
 ||| ||||||| || || |||||||
 Sbjct: 18370644 atatgagaggagacaggatgacccttagaattt 18370676

Score = 58.0 bits (29), Expect = 3e-05
 Identities = 112/139 (80%), Gaps = 3/139 (2%)
 Strand = Plus / Plus

Query: 6882 gtatacacaagatgtatgttagttcctataactcatgggtgagcatgcttataaacaacaa--
 6939
 ||||||| ||||| ||||||| ||||| | ||| | | | |

Sbjct: 21343183 gtatacacaagatgtacgtaggccctataactcatggttagcctctttacaagcagcaacg
21343242

Query: 6940 -catgagaacaaaacatgtgcattttttgaaatttggtcacagtcacactacctttcatct
6998

|||| || ||| ||||||| |||| |||||||| |||||| ||||| ||||
Sbjct: 21343243 gcatgcgagcaaggcatgtgcaacttttggaatttggtcatagtcacacaacctttgatct
21343302

Query: 6999 agcttgaccatgaaatttc 7017

| ||| || ||||||||
Sbjct: 21343303 atcttaactgtgaaatttc 21343321

Score = 58.0 bits (29), Expect = 3e-05
Identities = 47/53 (88%)
Strand = Plus / Plus

Query: 5014 ataattttaataaaattattttatgaataaaaaagggttttattccttaaattt 5066

||||||| ||||||| | |||||||| | ||||||||| |||||
Sbjct: 29623467 ataattttaataaaaatattttataagtaaataaaaaaatattattccttaaattt
29623519

Score = 58.0 bits (29), Expect = 3e-05
Identities = 47/53 (88%)
Strand = Plus / Minus

Query: 7313 catcccatgcgagagtccacttttcttggtggaatcttcctaagctaattaatt 7365

||||||| ||||||| ||||||| ||||| || ||| |||||||
Sbjct: 32201197 catcccatgcgagagtccacttttcttgcgaaatctcgctgagccaattaatt
32201145

Score = 58.0 bits (29), Expect = 3e-05
Identities = 80/97 (82%)
Strand = Plus / Minus

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

||||||| |||||| | ||| |||||||| ||| |||||| | ||| |
Sbjct: 39185384 aatttttagtattatataatgacgttaattattttttaacgtaattgacctattggctt
39185325

Query: 5237 agttggttagagcattatgttaataatgtgaaagtca 5273

|||||
Sbjct: 39185324 agttggttagagcatcgtgctaataacctgaaagtca 39185288

Score = 58.0 bits (29), Expect = 3e-05
Identities = 47/53 (88%)
Strand = Plus / Plus

Query: 5173 tagaaattttagtggttatatttagtgaaattaattattttataacataattga 5225
|||||
Sbjct: 44427753 tagaagttttaatggttatataatgacattaattatttataatataattga
44427805

Score = 56.0 bits (28), Expect = 1e-04
Identities = 61/72 (84%)
Strand = Plus / Plus

Query: 5162 taaatatacattagaaattttagtggttatatttagtgaaattaattattttataacataa
5221
|||||
Sbjct: 1334354 taaatgtacattacaaattttagtggttatataaaacaacattaattattttatgacataa
1334413

Query: 5222 ttgatgtattag 5233
|||
Sbjct: 1334414 ttggtctattag 1334425

Score = 56.0 bits (28), Expect = 1e-04
Identities = 94/116 (81%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 8700486 aaaattaattatttcaaaatttattatataaatttatatgtgtattaaggatacatataa
8700545

Query: 5177 aattttagtggttatatttagtgaaattaattattttataacataattgatgtatta 5232
|||||
Sbjct: 8700546 aattttaattgttatataataatattaattttattataatataattaatttatta
8700601

Score = 56.0 bits (28), Expect = 1e-04
Identities = 40/44 (90%)
Strand = Plus / Minus

Query: 6550 aaatagatatgaaattacaaacaatagaacaaaatattttaaatt 6593
||||| ||| || ||||||||||||||||||| |||||||
Sbjct: 14893577 aaataggtataaagttacaaacaatagaacaaaacattttaaatt 14893534

Score = 56.0 bits (28), Expect = 1e-04
Identities = 31/32 (96%)
Strand = Plus / Plus

Query: 6421 agagttgaaatcctttgtatTTTTatttttatt 6452
||||||||||||||||||||| |||||||
Sbjct: 18370328 agagttgaaatcctttgtatTTTtcattttatt 18370359

Score = 56.0 bits (28), Expect = 1e-04
Identities = 37/40 (92%)
Strand = Plus / Plus

Query: 6431 tcctttgtatTTTTatttttatttgattattataatacata 6470
||||| ||||| ||||||||||||||||||| |||||||
Sbjct: 27583592 tcctttatattttcattttatttgattattaaaatacata 27583631

Score = 56.0 bits (28), Expect = 1e-04
Identities = 52/60 (86%)
Strand = Plus / Minus

Query: 5290 ttggatcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaa
5349
||||| ||||||||||||||||||| ||| ||||||||||||||| ||||| || |||||
Sbjct: 36543062 ttggaccattaatttttaaattaattccaaaactatatatttttgaaataaaaaataaaaaaa
36543003

Score = 54.0 bits (27), Expect = 4e-04
Identities = 54/63 (85%)
Strand = Plus / Minus

Query: 5275 aagttcaattcttacttggatcattaattttaaattaatttgtaaaatatatttttgaaa
 5334

||||| |||| | ||| || ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 6676000 aagttccattccttcttagaccattaattttaaattaatcgtaaattatatttatgaaa
 6675941

Query: 5335 aaa 5337

|||

Sbjct: 6675940 aaa 6675938

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 54/63 (85%)
 Strand = Plus / Plus

Query: 5130 acaaaatttattatctaaatttgcacatgcacaataaatatacattagaaattttagtgtaa
 5189

||||| ||||| ||||| ||| ||| ||||| ||||| ||||| ||||| |||

Sbjct: 9623696 acaaaatttattatgtaaatttacatatacattaaatataaaattaaaaattttaattaa
 9623755

Query: 5190 tat 5192

|||

Sbjct: 9623756 tat 9623758

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 36/39 (92%)
 Strand = Plus / Plus

Query: 6414 ttttttaagagttgaaatcctttgtatttttattttatt 6452

||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 21342468 ttttttaagagtagaaatcctttgtatttccattttatt 21342506

Score = 54.0 bits (27), Expect = 4e-04
 Identities = 48/55 (87%)
 Strand = Plus / Plus

Query: 6438 tattttttattttattttgattattataataacataaattaaacaacaacttaattgaa 6492

||||| ||| |||| ||| || ||||| ||||| ||||| ||||| |||||

Sbjct: 21342752 tatttttaatttctttggttaataaaaatacataacttaaccaacaacttaattgaa
 21342806

Score = 52.0 bits (26), Expect = 0.002

Identities = 29/30 (96%)
Strand = Plus / Plus

Query: 7309 ccaccatcccatgcgagagtccacttttct 7338
||||||| ||||||||||||||||
Sbjct: 18371232 ccaccatcacatgcgagagtccacttttct 18371261

Score = 52.0 bits (26), Expect = 0.002
Identities = 38/42 (90%)
Strand = Plus / Minus

Query: 6518 aagttgacttgaactaaaatatttaaattacaaaatagatat 6559
||||||| ||||||||| |||||||||||||||| || ||||
Sbjct: 32201993 aagttgaattgaactaatatatttaaattacaatatatatat 32201952

Score = 52.0 bits (26), Expect = 0.002
Identities = 53/62 (85%)
Strand = Plus / Plus

Query: 5201 attaattatTTTtataacataattgatgtattagttcagttggtagagcattatgttaat
5260
|||| ||||||||||| ||||||| | ||||| ||| ||||||||||||| |||| ||||
Sbjct: 33391253 attatttattTTtataaatataattgggttcattagctcaattggtagagcactatgcta
33391312

Query: 5261 aa 5262
||
Sbjct: 33391313 aa 33391314

Score = 52.0 bits (26), Expect = 0.002
Identities = 26/26 (100%)
Strand = Plus / Plus

Query: 5296 catTAattTTTaaattAatttGtaaaa 5321
|||||||||||||||||||||||
Sbjct: 38795147 catTAattTTTaaattAatttGtaaaa 38795172

Score = 52.0 bits (26), Expect = 0.002
Identities = 65/77 (84%), Gaps = 2/77 (2%)
Strand = Plus / Plus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5175

 |||||
Sbjct: 39774398 aaaaattaattattacaaaatttattatgtaagctt--atatatattaaatatacat
39774455

Query: 5176 aaatdddtagtggtatat 5192

 |||||
Sbjct: 39774456 aaatdddtagtgatatat 39774472

Score = 52.0 bits (26), Expect = 0.002
Identities = 44/50 (88%)
Strand = Plus / Plus

Query: 5290 ttggatcattaatdddtaaattaatttgtaaaatatatdddttgaaaaaaaa 5339

 |||||
Sbjct: 40903339 ttggattattaatdddtaaattaatttgccacaaatatatdddttcaaaaaaaaa 40903388

Score = 50.1 bits (25), Expect = 0.007
Identities = 55/65 (84%)
Strand = Plus / Minus

Query: 2656 aaaacatggaattcatcctcaacatctctctcggttaacttatgaatcaagggttatcaaca
2715

 |||||
Sbjct: 6758332 aaaacacggaattcgtcttcgagatctctctcggtgactcatgaatccaagttaccaaca
6758273

Query: 2716 tacac 2720

 |||||
Sbjct: 6758272 tacac 6758268

Score = 50.1 bits (25), Expect = 0.007
Identities = 25/25 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgttttaaaat 6289

 |||||
Sbjct: 9581086 ttttttttttgttttgttttaaaat 9581062

Score = 50.1 bits (25), Expect = 0.007
Identities = 55/65 (84%)
Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaatttgcacataaatatacatag
5175
 |||||||||||||| |||||||||| || |||||| || || ||||||||||||
Sbjct: 11283582 aaaaattaattgtcacaaaatttattatcatgtaaatttatatatgcattaaatatacatag
11283523

Query: 5176 aaatt 5180
 |||||
Sbjct: 11283522 aaatt 11283518

Score = 50.1 bits (25), Expect = 0.007
Identities = 31/33 (93%)
Strand = Plus / Plus

Query: 5201 attaattattttataacataattgatgtattag 5233
 |||| |||||||||||||||||| |||||
Sbjct: 12827641 attatttattttataacataattgatttattag 12827673

Score = 50.1 bits (25), Expect = 0.007
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggctacatggatca 1682
 |||||||||||||| || || ||||||||||||
Sbjct: 27257816 gccttatcccactagttgaggttggtacatggatca 27257852

Score = 50.1 bits (25), Expect = 0.007
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 5164 aatatacattagaaatttttagtggttatat 5192
 ||||| ||||||||||||||||||||
Sbjct: 38684992 aatataaattagaaatttttagtggttatat 38684964

Score = 50.1 bits (25), Expect = 0.007
 Identities = 77/93 (82%), Gaps = 1/93 (1%)
 Strand = Plus / Plus

Query: 5131 caaaatttattatctaaatttgcacatgcacaataaatatacattagaaatttttagtggtat
 5190
 |||||
 Sbjct: 39103449 caaaatttattatctaaatctacatgtgcattaaatatatatttgaaa-tttattggtat
 39103507

Query: 5191 atttagtgaaattaattattttataacataatt 5223
 || |
 Sbjct: 39103508 atacaacgtcattaattattttataatataatt 39103540

Score = 50.1 bits (25), Expect = 0.007
 Identities = 31/33 (93%)
 Strand = Plus / Plus

Query: 5118 aaattaattgttacaaaatttattatctaaatt 5150
 |||||
 Sbjct: 46773728 aaattaattgtcacaaaatttattatttaaatt 46773760

Score = 48.1 bits (24), Expect = 0.026
 Identities = 39/44 (88%)
 Strand = Plus / Plus

Query: 5297 attaatTTTaaattaatttGTaaaatatatttttGaaaaaaaaa 5340
 |||||
 Sbjct: 5038489 attaatTTTaaattaaccGTaaattatatatttttGaaagaaaaa 5038532

Score = 48.1 bits (24), Expect = 0.026
 Identities = 33/36 (91%)
 Strand = Plus / Minus

Query: 5116 aaaaattaattgttacaaaatttattatctaaattt 5151
 |||||
 Sbjct: 5124745 aaaaattaattatcacaaaatttattatgtaaattt 5124710

Score = 48.1 bits (24), Expect = 0.026
 Identities = 27/28 (96%)

Strand = Plus / Plus

```
Query: 7308      gccaccatcccatgcgagagtcacttt 7335
                ||||||||| |||||||||||||
Sbjct: 21343626 gccaccatcctatgcgagagtcacttt 21343653
```

Score = 48.1 bits (24), Expect = 0.026
Identities = 24/24 (100%)
Strand = Plus / Plus

```
Query: 6265      ttttttttttgttttgttttaaaa 6288
                ||||||||| |||||||||||
Sbjct: 27538843 ttttttttttgttttgttttaaaa 27538866
```

Score = 48.1 bits (24), Expect = 0.026
Identities = 30/32 (93%)
Strand = Plus / Minus

```
Query: 7307      agccaccatcccatgcgagagtcacttttct 7338
                ||||||||| ||||||||| | |||||
Sbjct: 34562298 agccaccatcccatgcgagagtctatttttct 34562267
```

Score = 48.1 bits (24), Expect = 0.026
Identities = 45/51 (88%), Gaps = 2/51 (3%)
Strand = Plus / Plus

```
Query: 5291      tggatcathtaatttttaaattaatttgtaaaatatatttttgaaaaaaaaat 5341
                ||| ||||||||||||||||| |||| | | |||||||||||||
Sbjct: 39344015 tggaccathtaatttttaaattaatttcgtaaa--aaaatttgaaaaaaaaat 39344063
```

Score = 48.1 bits (24), Expect = 0.026
Identities = 39/44 (88%)
Strand = Plus / Plus

```
Query: 5295      tcattaatttttaaattaatttgtaaaatatatttttgaaaaaaaa 5338
                ||||||||| |||||| ||| || |||||
Sbjct: 42246006 tcattaatttttaaattaatttcttaaaaaatatatttaaaaaaa 42246049
```

Score = 48.1 bits (24), Expect = 0.026
Identities = 39/44 (88%)
Strand = Plus / Plus

Query: 5306 aaattaatttgtaaaatatatTTTTGAAAAAAAAATTATAAAAA 5349
||||||| | ||||| ||| | |||||
Sbjct: 42629563 aaattaatttatgaaatatatTTTtagaatagaaaattataaaaa 42629606

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 5284 tcttacttggatcattaatttttaaatt 5310
||||||| |||||
Sbjct: 885686 tcttacttggataattaatttttaaatt 885660

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5329 ttgaaaaaaaaattataaaaaaa 5351
|||||||
Sbjct: 927828 ttgaaaaaaaaattataaaaaaa 927806

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattat 5143
||||||| |||||
Sbjct: 1334174 aaaattaattgtcacaaaatttattat 1334200

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 1646 gccttatccactaggtggggctcggtacat 1676
||||||| | |||||
Sbjct: 2914157 gccttatccactaggtgagatcggtacat 2914127

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaacaagta 5574
 ||||| ||||||||||||||||
Sbjct: 3345543 ttttttaaaaaaaaaaaaaacaagta 3345517

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 5300 aattttaaattaatttgtaaaatatattttt 5330
 ||||| ||||| |||||
Sbjct: 5037570 aattttaaattaatttgtaaaatatattttt 5037540

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 6051 ccaaataataaaaaaaaaaattaattatttaccctaaa 6085
 ||||| || ||||||||||||| |||||
Sbjct: 8620241 ccaaataataataaataaattaattatttatccaaa 8620207

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5567
 ||||| |||||||||||||
Sbjct: 11642073 aacttttttttaaaaaaaaaaaaaa 11642095

Score = 46.1 bits (23), Expect = 0.10
Identities = 53/63 (84%)
Strand = Plus / Plus

Query: 5123 aattgttacaaaattttattatctaaatttgcacataaaatatacattagaaatttt
5182

 ||||| ||||||||||||||| ||||| ||||||| ||||| ||||||| ||
Sbjct: 12827542 aattgtcacaaaattttattattcaaatattatgcacataaaatgaattagaaatatt
12827601

Query: 5183 agt 5185

 |||
Sbjct: 12827602 agt 12827604

Score = 46.1 bits (23), Expect = 0.10
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 7262 tgttttcttgagtaccaaattaattaactca 7292

 ||||||||| ||||||||||||||| |||||
Sbjct: 18379799 tgttttcttggtaccaaattaattgactca 18379829

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5308 attaatTTgtaaaatatattttt 5330

 |||||||||||||||||||
Sbjct: 18977609 attaatTTgtaaaatatattttt 18977587

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 5308 attaatTTgtaaaatatattttt 5330

 |||||||||||||||||||
Sbjct: 18978076 attaatTTgtaaaatatattttt 18978054

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaaaca 5571

 ||||||||||||| |||||||||||||

Sbjct: 20734621 aactttttttttaagaaaaaaaaaaca 20734647

Score = 46.1 bits (23), Expect = 0.10
Identities = 41/47 (87%)
Strand = Plus / Minus

Query: 5201 attaattattttataacataattgatgtattagttcagttggttaga 5247
 ||||||| ||||||||||||||||| | ||||| || |||||||||
Sbjct: 22166564 attaatttttttataacataattggtctattagaccaattggttaga 22166518

Score = 46.1 bits (23), Expect = 0.10
Identities = 38/43 (88%)
Strand = Plus / Minus

Query: 6043 ttttttatccaaataataaaaaaaaaattaattatttaccctaaa 6085
 ||||||| ||||||||||| ||| ||||||||||||| |||||
Sbjct: 26778515 ttttttaccctaaataatataaattaattaattatttatccaaa 26778473

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 5327 ttttgaaaaaaaaaattataaaaa 5349
 |||||||||||||||||||
Sbjct: 28847194 ttttgaaaaaaaaaattataaaaa 28847216

Score = 46.1 bits (23), Expect = 0.10
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 5236 cagttggttagagcattatgttaataa 5262
 ||||||||||||||||| |||||||||
Sbjct: 37147096 cagttggttagagcattgtgttaataa 37147070

Score = 46.1 bits (23), Expect = 0.10
Identities = 35/39 (89%)
Strand = Plus / Plus

Query: 5055 attcttaaatttgcttgagccctctcaagtccttgagcc 5093
 ||||| | ||||| |||||
Sbjct: 37307097 attcttaaatttgctttaagccctctcaaataccttgagcc 37307135

Score = 46.1 bits (23), Expect = 0.10
Identities = 32/35 (91%)
Strand = Plus / Minus

Query: 1646 gccttatcccactaggtggggctcggtacatggat 1680
 ||||| || ||||| |||||
Sbjct: 37897328 gccttatcccactaggtgaggttggtctaaatggat 37897294

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 6266 tttttttttgttttgttttaaaa 6288
 ||||| |||||
Sbjct: 41938296 tttttttttgttttgttttaaaa 41938318

Score = 46.1 bits (23), Expect = 0.10
Identities = 23/23 (100%)
Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggg 1665
 ||||| |||||
Sbjct: 42076560 aacgccttatcccactaggtggg 42076538

Score = 46.1 bits (23), Expect = 0.10
Identities = 44/50 (88%), Gaps = 2/50 (4%)
Strand = Plus / Minus

Query: 5302 ttttaaattaatttgtaaaatatatttttgaaaaaaaaattataaaaaaa 5351
 ||||| ||||| ||||| | ||||| |||||
Sbjct: 42418875 ttttaaataatttcgtaaaatatattttt--acaaaaaattataaaaaaa 42418828

Score = 46.1 bits (23), Expect = 0.10

Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 5117 aaaattaattggtacaaaatttattat 5143
 ||||||| |||||||
Sbjct: 46886778 aaaattaattgtcacaaaatttattat 46886752

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
 |||||||
Sbjct: 830840 aaattaaaaaatatatatttaa 830861

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaa 5566
 |||||||
Sbjct: 3372408 aacttttttttaaaaaaaaaa 3372429

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatattt 5328
 ||||||| || |||||||
Sbjct: 3560989 tcattaatttttaaattatttcttaaaatatattt 3560956

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 6487 attgaaattaaaaaatatatatttaa 6512
 ||||| |||||||
Sbjct: 8672212 attgaaaataaaaaaatatatatttaa 8672187

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5297 attaatTTTtaaattaatttgta 5318
 ||||||||||||||||||||
Sbjct: 9133102 attaatTTTtaaattaatttgta 9133123

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6266 ttttttttTgttttgTTTtaa 6287
 ||||||||||||||||||||
Sbjct: 9760230 ttttttttTgttttgTTTtaa 9760251

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaac 5569
 ||||||||||||||||||||
Sbjct: 10914867 tttttttttaaaaaaaaaaac 10914846

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 5118 aaattaattgttacaaaatttattatctaaattt 5151
 ||||||||| ||||||||||||| |||||||
Sbjct: 11283508 aaattaattgccacaaaatttattatgttaaattt 11283475

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaa 5566
 ||||||||||||||||||||

Sbjct: 11664161 aactttttttttaaaaaaaaaa 11664140

Score = 44.1 bits (22), Expect = 0.41
Identities = 46/54 (85%)
Strand = Plus / Plus

Query: 6561 aaattacaacaatagaacaaaatatTTaaatttgaaataatacaacaaaaatt 6614
||||| ||||| ||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 13920752 aaattataaacaatgtaacataatatTTaaattacaacaaataataacataaatt
13920805

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5568
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18232027 ctttttttttaaaaaaaaaaaaaa 18232048

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 7309 ccaccatcccatgCGagagtccacttttct 7338
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 18379864 ccaccatcccatgcttgagtccacttttct 18379893

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6266 tttttttttgttttgttttaaa 6287
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 20843605 tttttttttgttttgttttaaa 20843626

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5329 ttgaaaaaaaaattataaaaaa 5350
 |
Sbjct: 28716408 ttgaaaaaaaaattataaaaaa 28716387

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 1649 ttatcccactaggtggggtcggctacatggatca 1682
 |
Sbjct: 29639425 ttatcccactaggtgagatcggctacatagatca 29639392

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 3886 attttgtaaaaatgatttttttttaa 3911
 |
Sbjct: 32237020 attttgtaaaattgatttttttttaa 32236995

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaacaagtaata 5577
 |
Sbjct: 33658101 ttttttttaataaaaaaaaaaacatgtaata 33658130

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5333 aaaaaaaattataaaaaaatga 5354
 |
Sbjct: 35336323 aaaaaaaattataaaaaaatga 35336344

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 6140 tttcttaattacatTTTTTTTat 6161
|||||
Sbjct: 35593471 tttcttaattacatTTTTTTTat 35593492

Score = 44.1 bits (22), Expect = 0.41
Identities = 31/34 (91%)
Strand = Plus / Plus

Query: 6279 tgTTTTTaaaattgTTTgtatTTTTatTTTTTTtg 6312
||||| ||||| |||||||
Sbjct: 36546364 tgTTTTTaaaattTTTTgtatTTTTatTTTatttg 36546397

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatat 5324
||||| ||||| |||||||
Sbjct: 38331133 tcattaatttttaaattaattccttaaaatat 38331104

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
|||||
Sbjct: 40327276 ttttttttaaaaaaaaaaaaaaac 40327297

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaaac 5569
|||||
Sbjct: 40568505 ttttttttaaaaaaaaaaaaaaac 40568526

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 6572 aatagaacaaaatatttaaatttgaa 6597
 ||||| ||||| ||||| |||||
Sbjct: 41301095 aatagaacaaaaaatttaaatttgaa 41301120

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 5308 attaatttgtaaaatatatttttgaaaaaa 5337
 ||||| ||||| ||||| ||||| |||||
Sbjct: 42244931 attaatttataaaacatatatttttgaaaaaa 42244902

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaaa 5567
 ||||| ||||| ||||| ||||| |||||
Sbjct: 43154811 actttttttttaaaaaaaaaaaaaa 43154790

Score = 44.1 bits (22), Expect = 0.41
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 6037 agagttttttttatccaaataataaaaaaa 6066
 ||||| ||||| ||||| ||||| |||||
Sbjct: 44239009 agagttttttttatcaaaattataaaaaaa 44238980

Score = 44.1 bits (22), Expect = 0.41
Identities = 34/38 (89%)
Strand = Plus / Minus

Query: 5208 attttataacataattgatgtattagttcagttggtta 5245

```

      |||||||
Sbjct: 46384349 attttataacataattgattttattaatttaattggtta 46384312

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 22/22 (100%)
Strand = Plus / Minus

```

Query: 6491      aaattaaaaaatatatatttaa 6512
      |||||||
Sbjct: 46514712 aaattaaaaaatatatatttaa 46514691

```

Score = 44.1 bits (22), Expect = 0.41
Identities = 25/26 (96%)
Strand = Plus / Plus

```

Query: 5326      tttttgaaaaaaaaaattataaaaaaa 5351
      |||||||
Sbjct: 46569448 tttttgaaaaaaaaaattataaaaaaa 46569473

```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```

Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
      |||||||
Sbjct: 693318 ttttttttaaaaaaaaaaaaaa 693298

```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```

Query: 5331      gaaaaaaaaaattataaaaaaa 5351
      |||||||
Sbjct: 1831698 gaaaaaaaaaattataaaaaaa 1831718

```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5545 aactttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 2381283 aactttttttttaaaaaaaaaa 2381263

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 3087419 tttttttttaaaaaaaaaaaaaa 3087399

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6264 cttttttttttgttttgtttt 6284
 |||||
Sbjct: 3323042 cttttttttttgttttgtttt 3323022

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 3345544 tttttttttaaaaaaaaaaaaaa 3345524

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 cttttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 3398631 cttttttttttaaaaaaaaaaaaaa 3398611

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5568
 |||||
Sbjct: 3937086 ttttttttaaaaaaaaaaaaaa 3937106

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 5550 ttttttaaaaaaaaaaaaaacaagtaataa 5578
 ||||| |||||
Sbjct: 5120436 ttttttaaaaaaaaaaaaaacatgtaataa 5120464

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6298 tttttattttttttgttatta 6318
 |||||
Sbjct: 6067096 tttttattttttttgttatta 6067076

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 4989 ttattttactttgatacatta 5009
 |||||
Sbjct: 6720116 ttattttactttgatacatta 6720136

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 7933520 ctttttttttaaaaaaaaaaaaaa 7933500

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5551 ttttttaaaaaaaaaaaaaaaca 5571
|||||
Sbjct: 8128912 ttttttaaaaaaaaaaaaaaaca 8128932

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
|||||
Sbjct: 8598738 ctttttttttaaaaaaaaaaaaaa 8598718

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 5318 aaaatatattttttgaaaaaaaaaatt 5342
|||||
Sbjct: 9042798 aaaatatattttttgaaaaaaaaaatt 9042822

Score = 42.1 bits (21), Expect = 1.6
Identities = 36/41 (87%)
Strand = Plus / Minus

Query: 5742 aaaacatcaaatttgctaaaagatccttaaactttaattga 5782
|||||
Sbjct: 10723036 aaaatatcaaatttcctaaaaggctccttagactttaattga 10722996

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 6608 aaaaatttttaaaatacaacaatat 6632

```
          ||||| |||||
Sbjct: 18201006 aaaaattttaaaaatacaacaatat 18201030
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 5323      atatTTTTgaaaaaaaaaattataaa 5347
                ||||| |||||
Sbjct: 18939995 atatTTTTgaaaaaaaaaattataaa 18939971
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5547      cttttttttaaaaaaaaaa 5567
                ||||| |||||
Sbjct: 21116442 cttttttttaaaaaaaaaa 21116422
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 7736      acaatcaccaacaaatgatac 7756
                ||||| |||||
Sbjct: 21964540 acaatcaccaacaaatgatac 21964520
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5545      aactTTTTTTtaaaaaaaaaa 5565
                ||||| |||||
Sbjct: 22050601 aactTTTTTTtaaaaaaaaaa 22050581
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 36/41 (87%)
Strand = Plus / Minus

Query: 5116 aaaaattaattggttacaaaatttattatctaaatttgcacg 5156
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 22166642 aaaaattaattatcataaaaatttattatataaaattttcatg 22166602

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Query: 1646 gccttatcccactaggtggggctcggtacatgg 1678
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 23897924 gccttatcccactaggtgtggttgccacatgg 23897956

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

Query: 5201 attaatatttttataacataattgatgtattag 5233
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 27286088 attatttatttttataacataatttatttattag 27286056

Score = 42.1 bits (21), Expect = 1.6
Identities = 27/29 (93%)
Strand = Plus / Minus

Query: 3851 gatagcaattgtaggaagtgggttatattg 3879
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 29520160 gatagcaattgtagcaagtggatatattg 29520132

Score = 42.1 bits (21), Expect = 1.6
Identities = 54/65 (83%)
Strand = Plus / Plus

Query: 5209 ttttataacataattgatgtattagttcagttgggttagagcattatgttaataatgtgaa
5268
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 31813266 ttttttaacataattgacttattaatttagttgattagagtgttacattaataatgtaaa
31813325

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)

Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaaa 5568
                |||||||||||||||||||
Sbjct: 35670114 tttttttttaaaaaaaaaaaaaa 35670094
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 5157      cacaataaatatacattagaa 5177
                |||||||||||||||||||
Sbjct: 36014547 cacaataaatatacattagaa 36014527
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Minus

```
Query: 5308      attaatttgtaaaatatatttttgaaaaaaaaa 5340
                |||||||| ||||| |||||||||||| |||||
Sbjct: 37791452 attaatttttaaaacatatatttttgaaaagaaaa 37791420
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 6152      attttttttatacatttagaaa 6172
                |||||||||||||||||||
Sbjct: 37875689 attttttttatacatttagaaa 37875709
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 24/25 (96%)
Strand = Plus / Minus

```
Query: 6452      ttgattattataatacataattaaa 6476
                |||||||||||||||| |||||||||
Sbjct: 38752201 ttgattattataataataattaaa 38752177
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 6265 ttttttttttgttttgtttta 6285
 ||||||||||||||||||
Sbjct: 38819766 ttttttttttgttttgtttta 38819746

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 39152864 tttttttttaaaaaaaaaaaaaa 39152844

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 39450072 tttttttttaaaaaaaaaaaaaa 39450092

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 40473114 tttttttttaaaaaaaaaaaaaa 40473094

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 44188711 tttttttttaaaaaaaaaaaaaa 44188731

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

```
Query: 4880      tttttcttttatttttatttt 4900
                |||||
Sbjct: 44482716 tttttcttttatttttatttt 44482696
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 45674603 ttttttttaaaaaaaaaaaaaa 45674623
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5999      aaaaagaaaaaagaaatgcat 6019
                |||||
Sbjct: 45813227 aaaaagaaaaaagaaatgcat 45813247
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 46071723 ttttttttaaaaaaaaaaaaaa 46071743
```

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 47237663 ctttttttttaaaaaaaaaaaaaa 47237683

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 670273 ttttttttttaaaaaaaaaaaaaa 670254

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4797 ataagtaataattttttatc 4816
 |||||
Sbjct: 893304 ataagtaataattttttatc 893323

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 931856 ttttttttttaaaaaaaaaaaaaa 931875

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5544 gaacttttttttaaaaaaaaaaaaaa 5563
 |||||
Sbjct: 1267114 gaacttttttttaaaaaaaaaaaaaa 1267095

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 3887 ttttgtaaaaatgatttttttta 3910
 |||| ||||||||||||||||
Sbjct: 3818687 ttttcta aaaatgatttttttta 3818710

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6039 agttttttttatccaaataa 6058
 ||||||||||||||||||
Sbjct: 4068046 agttttttttatccaaataa 4068065

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5571
 |||||||||||||||| ||||||
Sbjct: 4563946 ttttttttaaaaaaaataaaaca 4563923

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 5142543 ttttttttaaaaaaaaaaaaaa 5142524

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 5446622 ttttttttaaaaaaaaaaaaaa 5446641

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4881 ttttcttttatttttatttt 4900
 |||||
Sbjct: 5524565 ttttcttttatttttatttt 5524546

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||
Sbjct: 6078542 aaattaaaaaatatatattt 6078561

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 7299831 ttttttttaaaaaaaaaaaaa 7299812

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 7736177 ttttttttaaaaaaaaaaaaa 7736158

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaaca 5570
||||||| |||||||||
Sbjct: 15185545 ctttttttttaaaaaaaaaaaaaaca 15185568

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
||||||| |||||||||
Sbjct: 16621281 ttttttttaaaaaaaaaaaaaa 16621300

Score = 40.1 bits (20), Expect = 6.4
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatattttt 5330
||||||| || ||||| |||||||
Sbjct: 19410285 tcattaatttttaaattatttcataaaaaatatattttt 19410250

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 5545 aacttttttttaaaaaaaaaaaaaa 5568
||||||| |||||||||
Sbjct: 19483399 aacttttctttaaaaaaaaaaaaaa 19483422

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6205 attttttttttcaaaaccaa 6224
||||||| |||||||||
Sbjct: 20041467 attttttttttcaaaaccaa 20041448

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)

Strand = Plus / Minus

```
Query: 7509      tcttcaaaacttgattcaagggttcattg 7536
                |||||
Sbjct: 21964757 tcttcaaaactcaattcaagggttcattg 21964730
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
                |||||
Sbjct: 23293795 ttttttttaaaaaaaaaaaaaa 23293776
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5549      ttttttttaaaaaaaaaaaaaa 5568
                |||||
Sbjct: 23835769 ttttttttaaaaaaaaaaaaaa 23835788
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6265      ttttttttttgttttgtttt 6284
                |||||
Sbjct: 24216979 ttttttttttgttttgtttt 24216998
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
                |||||
Sbjct: 25722468 ttttttttaaaaaaaaaaaaaa 25722449
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||||
Sbjct: 26546375 tttttttttaaaaaaaaaaaaaa 26546356

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4882 tttctttttatttttattttg 4901
 ||||||||||||||||||||
Sbjct: 27066328 tttctttttatttttattttg 27066347

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 6487 attgaaattaaaaaatatatattt 6510
 |||||| ||||||||||||||||
Sbjct: 27136503 attgaagttaaaaaaatatatattt 27136526

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaaaca 5571
 |||||||||||||||||| |||||
Sbjct: 27415427 tttttttttaaaaaaaaaaaaaaaca 27415404

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6202 ttcattttttttttcaaaac 6221
 ||||||||||||||||||||
Sbjct: 28506868 ttcattttttttttcaaaac 28506849

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 4880 tttttcttttatttttattt 4899
 |||||
Sbjct: 28651233 tttttcttttatttttattt 28651252

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 5335 aaaaaattataaaaaaatgaatca 5358
 |||||
Sbjct: 29234862 aaaaaattataaaaaaagaatca 29234839

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 30564021 aaaaaaaaaattataaaaaaa 30564002

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5332 aaaaaaaaaattataaaaaaa 5351
 |||||
Sbjct: 31003291 aaaaaaaaaattataaaaaaa 31003310

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 3891 gtaaaaatgatttttttttaa 3910
 |||||||
Sbjct: 31467445 gtaaaaatgatttttttttaa 31467464

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 4785 taataataattaataagtaataat 4808
 |||||||
Sbjct: 31542224 taataataattaataattaataat 31542201

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 1640 acaaacgccttatcccactaggtg 1663
 |||||
Sbjct: 32257907 acaaaagccttatcccactaggtg 32257884

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5332 aaaaaaaaattataaaaaaa 5351
 |||||||
Sbjct: 33177737 aaaaaaaaaattataaaaaaa 33177718

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 5117 aaaattaattgttacaaaatttattatctaaa 5148
 |||||||
Sbjct: 34825525 aaaattaattgtcataaaaatttattatgtaaa 34825494

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)

Strand = Plus / Minus

```
Query: 6261      ttgctttttttttttgttttgtttt 6284
              |||||
Sbjct: 35749249 ttgctttttttttttgttttt 35749226
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 3889      ttgtaaaaatgatttttttt 3908
              |||||
Sbjct: 35985511 ttgtaaaaatgatttttttt 35985492
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 5548      tttttttttaaaaaaaaaaaaa 5567
              |||||
Sbjct: 36022323 tttttttttaaaaaaaaaaaaa 36022304
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaa 5567
              |||||
Sbjct: 36022308 tttttttttaaaaaaaaaaaaa 36022327
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      tttttttttaaaaaaaaaaaaa 5567
              |||||
Sbjct: 36639405 tttttttttaaaaaaaaaaaaa 36639424
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaa 5565
 |||||
Sbjct: 37612626 actttttttttaaaaaaaaaa 37612607

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 2583 ataatatatttttttctttct 2602
 |||||
Sbjct: 38151495 ataatatatttttttctttct 38151514

Score = 40.1 bits (20), Expect = 6.4
Identities = 29/32 (90%)
Strand = Plus / Plus

Query: 6562 aattacaaacaatagaacaaaatatttaaatt 6593
 |||||
Sbjct: 38438336 aattacaaacaatataacataatgtttaaatt 38438367

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaa 5567
 |||||
Sbjct: 38454128 tttttttttaaaaaaaaaa 38454109

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5545 aactttttttttaaaaaaaaaa 5564
 |||||
Sbjct: 38921462 aactttttttttaaaaaaaaaa 38921481

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||
Sbjct: 39012762 tttttttttaaaaaaaaaaaaaa 39012781

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaaaaaa 5566
 |||||
Sbjct: 39608931 ctttttttttaaaaaaaaaaaaaa 39608950

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Plus

Query: 5209 ttttataacataattgatgtattagttcagttggttagag 5248
 |||| | ||||| || || |||| | |||||
Sbjct: 39774498 ttttttaacataattaatctattagcttagttggttagag 39774537

Score = 40.1 bits (20), Expect = 6.4
Identities = 35/40 (87%)
Strand = Plus / Minus

Query: 5298 ttaatttttaaatattgtataatattttgaaaaaa 5337
 |||| | ||||| || || |||| | |||||
Sbjct: 39987224 ttaatcttaaatattcgtaaacatttttttaaaaaaa 39987185

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 40327291 tttttttttaaaaaaaaaaaaaa 40327272

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 4877 aagtttttcttttatttttatttt 4900
 ||||||| |||||
Sbjct: 40693761 aagtttttattttatttttatttt 40693738

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 40835874 tttttttttaaaaaaaaaaaaaa 40835893

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 |||||||
Sbjct: 41490522 tttttttttaaaaaaaaaaaaaa 41490503

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 cttttttttaaaaaaaaaaaaaa 5566
 |||||||
Sbjct: 41761928 cttttttttaaaaaaaaaaaaaa 41761947

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)

Strand = Plus / Minus

```
Query: 5013      aataattttaataaattatt 5032
               |||||
Sbjct: 42645853 aataattttaataaattatt 42645834
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaacaa 5571
               |||||
Sbjct: 42713971 ttttttttaaaaaaaaaaataaacia 42713994
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 26/28 (92%)
Strand = Plus / Minus

```
Query: 5548      ttttttttaaaaaaaaaaaaaacaagtaa 5575
               |||||
Sbjct: 42787319 ttttttttaagaaaaaaaaacaagtaa 42787292
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 2581      aaataatatatttttttcttt 2600
               |||||
Sbjct: 43497131 aaataatatatttttttcttt 43497112
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 5548      ttttttttaaaaaaaaaaaaaa 5567
               |||||
Sbjct: 43710695 ttttttttaaaaaaaaaaaaaa 43710714
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaa 5567
 |||||
Sbjct: 43882033 tttttttttaaaaaaaaaaaaa 43882014

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6491 aaattaaaaaatatatattt 6510
 |||||
Sbjct: 44403277 aaattaaaaaatatatattt 44403258

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 4802 taataattttttatcaatat 4821
 |||||
Sbjct: 44751655 taataattttttatcaatat 44751636

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5546 actttttttttaaaaaaaaaaaaa 5565
 |||||
Sbjct: 45044360 actttttttttaaaaaaaaaaaaa 45044341

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 6202 ttcattttttttttcaaaac 6221
 |||||
Sbjct: 45240199 ttcattttttttttcaaaac 45240218

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
 ||||||||||||||||||
Sbjct: 45567336 ttttttttaaaaaaaaaaaaaa 45567317

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 45667235 ttttttttaaaaaaaaaaaaaa 45667216

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5548 ttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||
Sbjct: 45667220 ttttttttaaaaaaaaaaaaaa 45667239

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 4886 ttttatttttattttgttcctatt 4909
 |||||||||||||||||| |||||
Sbjct: 46065864 ttttatttttattttgtttctatt 46065887

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||||
 Sbjct: 46825882 tttttttttaaaaaaaaaaaaaa 46825863

Score = 40.1 bits (20), Expect = 6.4
 Identities = 20/20 (100%)
 Strand = Plus / Minus

Query: 5548 tttttttttaaaaaaaaaaaaaa 5567
 ||||||||||||||||||||
 Sbjct: 47670497 tttttttttaaaaaaaaaaaaaa 47670478

>[gb|ACUP01000091.1](#)| Glycine max chromosome 1 GLYMChr_01_Cont91, whole genome
 shotgun

 sequence
 Length = 120860

Score = 1584 bits (799), Expect = 0.0
 Identities = 811/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggtcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 20699 aacgccttatcccactaggtggggtcgggtacatggatcaacttccgccataatgttcta
 20640

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 20639 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacccctctt
 20580

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 20579 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 20520

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 20519 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 20460

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942
|||||
Sbjct: 20459 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttggtttcta
20400

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 20399 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
20340

Query: 2003 actttattctcatggtggctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 20339 actttattctcatggtggctcttgaccgccaacattctgttccgtacaaaatcgccggt
20280

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 20279 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
20220

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182
|||||
Sbjct: 20219 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgggtcacatccct
20160

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242
|||||
Sbjct: 20159 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
20100

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302
|||||
Sbjct: 20099 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
20040

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
2362
|||||
Sbjct: 20039 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctcgt
19980

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 19979 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 19920

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 19919 tctgcaaaaagcatgcatctcggcgctatctcttg 19885

>[gb|ACUP01000117.1](#) Glycine max chromosome 1 GLYMChr_01_Cont117, whole
 genome shotgun
 sequence
 Length = 120394

Score = 1568 bits (791), Expect = 0.0
 Identities = 809/815 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 90237 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 90178

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 90177 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 90118

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
 1822

|||||
 Sbjct: 90117 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
 90058

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgccccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 90057 ctctcactacagagtctaccggtcttctctttacatgccccaaaccacctaagtctattt
 89998

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggtttcta
 1942

|||||
 Sbjct: 89997 tccaccatcttctctacaatagggtgctactccaaccctctctctaataagcttcggtttcta
 89938

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 89937 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct
89878

Query: 2003 actttattctcatgttggctcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 89877 actttattctcatgttgactctttaccgccccaacattctgttccgtacaaaatcgccggt
89818

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 89817 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
89758

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182

|||||
Sbjct: 89757 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
89698

Query: 2183 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 89697 tcaatttccccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
89638

Query: 2243 ataatatggtctcctattttccactctgagttagaaaccctccttcttttgttgaactta
2302

|||||
Sbjct: 89637 ataatatggtctcctattttccactctgagttagaaaccctccttcttttgttgaactta
89578

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 89577 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
89518

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||
Sbjct: 89517 ctctaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
89458

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 89457 tctgcaaaaagcatgcatctcggcactatctcttg 89423

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 5547 ctttttttttaaaaaaaaaa 5566
|||||
Sbjct: 37138 ctttttttttaaaaaaaaaa 37157

>[gb|GG730348.1](#)| Glycine max unplaced genomic scaffold GLYMAScaffold_21, whole genome

shotgun sequence
Length = 1127293

Score = 1568 bits (791), Expect = 0.0
Identities = 809/815 (99%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta 1702
|||||
Sbjct: 706342 aacgccttatccactaggtggggcggctacatggatcaacttccgccataatgttcta 706283

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt 1762
|||||
Sbjct: 706282 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt 706223

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact 1822
|||||
Sbjct: 706222 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact 706163

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt 1882
|||||
Sbjct: 706162 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctattt 706103

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942
|||||
Sbjct: 706102 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
706043

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 706042 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
705983

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 705982 actttattctcatggttggtctcttgaccgccaacattttgttccgtacaaaatcgccggt
705923

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 705922 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
705863

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182
|||||
Sbjct: 705862 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
705803

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaccgtgtgacttgaggg
2242
|||||
Sbjct: 705802 tcaatttctccatcatcctgtattacagacccaagatatattaaccgtgtgacttgagga
705743

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
2302
|||||
Sbjct: 705742 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
705683

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362
|||||
Sbjct: 705682 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
705623

Query: 2363 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
|||||
Sbjct: 705622 ctccaagttttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
705563

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457
|||||
Sbjct: 705562 tctgcaaaaagcatgcatctcggcgctatctcttg 705528

Score = 101 bits (51), Expect = 2e-18
Identities = 124/146 (84%), Gaps = 3/146 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176
|||||
Sbjct: 683098 aaaattaattattacaaaatttattatgtgaatttatatgtat--taaataatatattaga
683155

Query: 5177 aattttagtggttatattttagtgaaattaattattttataacataattgatgtattagttc
5236
|||||
Sbjct: 683156 aattttagtattatatatagtgacattaatt-tttttttacataattgacctattagttc
683214

Query: 5237 agttggtagagcattatgttaataa 5262
| ||| ||||| ||| |||||
Sbjct: 683215 atttgattagagtattgtgttaataa 683240

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaa 5568
|||||
Sbjct: 148217 ttttttttaaaaaaaaaaaaaa 148198

Score = 40.1 bits (20), Expect = 6.4
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 6295 gtatTTTTatTTTTTTTgttatta 6318
|||||
Sbjct: 436412 gtatTTTTatTTTTTTTattatta 436389

>[gb|ACUP01000088.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont88, whole genome
shotgun

sequence
Length = 201513

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
|||||
Sbjct: 12667 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
12726

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
|||||
Sbjct: 12727 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
12786

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822
|||||
Sbjct: 12787 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
12846

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatTT
1882
|||||
Sbjct: 12847 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatTT
12906

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgTTTcta
1942
|||||
Sbjct: 12907 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgTTTcta
12966

Query: 1943 atTTTatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 12967 atTTTatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
13026

Query: 2003 actttattctcatggttggtcttgaccgcccacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 13027 actttattctcatggttggtcttgaccgcccacattctgttctgtacaaaatcgccggt
13086

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 13087 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
13146

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 13147 acccccgatgcttttctccatttcatccatcctgcttgaatacgatgattcacatccct
13206

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 13207 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
13266

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 13267 ataatatggtctcctattttcacctctgagttagaaaccctccttctggtggtgaactta
13326

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||
Sbjct: 13327 cattccatatactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagctcgt
13386

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422

|||||
Sbjct: 13387 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
13446

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
Sbjct: 13447 tctgcaaaaagcatgcatctcggcgctatctcttg 13481

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 5334 aaaaaaattataaaaaaatg 5353
 |||||||
Sbjct: 162981 aaaaaaattataaaaaaatg 162962

>[gb|GG730426.1](#)| Glycine max unplaced genomic scaffold GLYMA scaffold_146,
whole genome

 shotgun sequence
 Length = 33267

Score = 1552 bits (783), Expect = 0.0
Identities = 807/815 (99%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
 |||||||
Sbjct: 18421 aacgccttatcccactaggtggggctcggctacatggatcaacttccaccataatgttcta
18480

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762
 |||||||
Sbjct: 18481 tcaagtatcatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
18540

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgctcttctctccatctgggtctact
1822
 |||||||
Sbjct: 18541 atagtctttttgggtcttcctctgcctcgaattggttgctcttctctccatctgggtctact
18600

Query: 1823 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882
 |||||||
Sbjct: 18601 ctctctactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
18660

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcggtttcta
1942
 |||||||
Sbjct: 18661 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtttcggtttcta
18720

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002
|||||
Sbjct: 18721 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
18780

Query: 2003 actttattctcatgttggtcttggaccgcccacattctgttccgtacaaaatcgccggt
2062
|||||
Sbjct: 18781 actttattctcatgttggtcttggactgcccacattctgttccgtacaaaatcgccggt
18840

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122
|||||
Sbjct: 18841 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
18900

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
2182
|||||
Sbjct: 18901 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct
18960

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
2242
|||||
Sbjct: 18961 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgagg
19020

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
2302
|||||
Sbjct: 19021 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaactta
19080

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362
|||||
Sbjct: 19081 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
19140

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
|||||
Sbjct: 19141 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
19200

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

```
|||||
Sbjct: 19201 tctgcaaaaagcatgcatctcggcgctatctcttg 19235
```

>[gb|GG731187.1](#) Glycine max unplaced genomic scaffold GLYMAScaffold_1819,
whole

genome shotgun sequence
Length = 3663

Score = 1534 bits (774), Expect = 0.0
Identities = 804/814 (98%)
Strand = Plus / Plus

```
Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta 1702
          |||||||
Sbjct: 2827 aacgccttatcccactaggtggggctcggctacatggatcaacttctgccataatgttcta 2886
```

```
Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt 1762
          |||||||
Sbjct: 2887 tcaagtaccatacttctatccaaatcattaagttcgagatccttttttataacctctctt 2946
```

```
Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact 1822
          |||||||
Sbjct: 2947 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact 3006
```

```
Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat 1882
          |||||||
Sbjct: 3007 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat 3066
```

```
Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta 1942
          |||||||
Sbjct: 3067 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta 3126
```

```
Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct 2002
          |||||||
Sbjct: 3127 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct 3186
```

```
Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttccgtacaaaatcgccggt 2062
          |||||||
Sbjct: 3187 actttattctcctgttgggtcttgactgccaacattctgttccgtacaaaatcgccagt 3246
```

```
Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac 2122
          |||||||
Sbjct: 3247 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac 3306
```

```
Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccct 2182
          |||||||
```

Sbjct: 3307 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct 3366

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg 2242
 |||||

Sbjct: 3367 tcaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg 3426

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta 2302
 |||||

Sbjct: 3427 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta 3486

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt 2362
 |||||

Sbjct: 3487 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagcttgt 3546

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca 2422
 |||||

Sbjct: 3547 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca 3606

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctctt 2456
 |||||

Sbjct: 3607 tctgcaaaaagcatgcatctcggcgctatctctt 3640

>[gb|GG730352.1](#) Glycine max unplaced genomic scaffold GLYMA scaffold_25, whole genome

shotgun sequence
 Length = 776127

Score = 1521 bits (767), Expect = 0.0
 Identities = 803/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta 1702

|||||
 Sbjct: 500939 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta 500880

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt 1762

|||||
 Sbjct: 500879 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt 500820

Query: 1763 atagtctttttgggtcttctctgctcgaattgtttgtcttctctccatctgggtctact 1822

|||||

Sbjct: 500819 atagtcttttttggttcttctctgctcgaattgtttgcttctctccatctggtctact
500760

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 500759 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
500700

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttcta
1942

|||||
Sbjct: 500699 tccaccatcttctctacaataggcgctactccaaccctctctctaataacttcgtttcta
500640

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 500639 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
500580

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 500579 actttattctcatggttggtctcttgaccgccaacattctgttctgtacaaaatcgctcggt
500520

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 500519 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
500460

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 500459 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
500400

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
2242

| |||||
Sbjct: 500399 ttaatttctccatcatcctgtattacagaccaagatatattaaaccgtgtgacttgaggg
500340

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttgttgaaactta
2302

|||||

Sbjct: 500339 ataatatgggtctcctattttcacctctgagttataaaccctccttcttttgttgaactta
 500280

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
 2362

|||||
 Sbjct: 500279 cattccatataactccgatttgcttctgcttaggcgaaaaccatgtggttctagagctcgt
 500220

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 500219 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 500160

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 500159 tctgcaaaaagcatgcatctcggcgctatctcttg 500125

>[gb|GG730351.1](#) Glycine max unplaced genomic scaffold GLYMAScaffold_24, whole
 genome

shotgun sequence
 Length = 634454

Score = 1521 bits (767), Expect = 0.0
 Identities = 803/815 (98%)
 Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 215026 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 214967

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762

|||||
 Sbjct: 214966 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
 214907

Query: 1763 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 214906 atagtctttttgggtcttctctgcctcgaattgtttgtcttctctccatctgggtctact
 214847

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
 1882

|||||
Sbjct: 214846 ctctcactatagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
214787

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta
1942

|||||
Sbjct: 214786 tccaccatcttctctacaataggcgctactccaacactctctctaataagctccgtttcta
214727

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 214726 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
214667

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 214666 actttagtctcatggttggtctcttgaccgccaacattctgttcggtacaaaatcgccggt
214607

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 214606 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
214547

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 214546 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
214487

Query: 2183 tcaatttcccatcatcctgtattacagacccaagatatattaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 214486 tcaatttctccatcatccttatattacagacccaagatatattaaaccgtgtgacttgaggg
214427

Query: 2243 ataatatggtctcctattttcacctctgagttagaaaccctccttcttttggtgaactta
2302

|||||
Sbjct: 214426 ataatatggtctcctattttcacctctgagttagataccctcctacttttggtgaactta
214367

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
2362

|||||

Sbjct: 214366 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 214307

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 214306 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 214247

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 214246 tctgcaaaaagcatgcatctcggcgctatctcttg 214212

Score = 44.1 bits (22), Expect = 0.41
 Identities = 25/26 (96%)
 Strand = Plus / Minus

Query: 5545 aacttttttttaaaaaaaaaaaaaaca 5570

|||||
 Sbjct: 34167 aactcttttttaaaaaaaaaaaaaaca 34142

Score = 40.1 bits (20), Expect = 6.4
 Identities = 20/20 (100%)
 Strand = Plus / Minus

Query: 4433 aatagttcaattttttttttt 4452

|||||
 Sbjct: 9609 aatagttcaattttttttttt 9590

>[gb|ACUP0100087.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont87, whole genome
 shotgun

sequence
 Length = 45130

Score = 1507 bits (760), Expect = 0.0
 Identities = 799/812 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 44319 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgctataatgttcta
 44378

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 44379 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
44438

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 44439 atagtctttttgggtcttcctctgcctcgaattgtttgcctactctccatctgggtctact
44498

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 44499 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
44558

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcgtttcta
1942

|||||
Sbjct: 44559 tccaccatcttctctacaataggcgctactccaacccttctctgatagcttcgttttta
44618

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002

|||||
Sbjct: 44619 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
44678

Query: 2003 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
2062

|||||
Sbjct: 44679 actttattctcatgttgggtcttgaccgccaacattctgttcggtacaaaatcgccggt
44738

Query: 2063 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 44739 cttaccgcagtcgcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
44798

Query: 2123 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 44799 acccccgatgctttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
44858

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242
|||||
Sbjct: 44859 tcaatttctccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
44918

Query: 2243 ataatatggtctcctatttcacctctgagttagaaaccctccttcttttgttgaactta
2302
|||||
Sbjct: 44919 ataatatggtctcctatttcacctctgagttagaaaccctccttcttttgttgaactta
44978

Query: 2303 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
2362
|||||
Sbjct: 44979 cattccatatactccgatttgcttctgcttaggcgaaagccatgtggttctagagctcgt
45038

Query: 2363 ctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgtca
2422
|||||
Sbjct: 45039 ctccaagtttccaacctctcattcaactcctcccgactctccaaggaggactatgtca
45098

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctc 2454
|||||
Sbjct: 45099 tctgcaaaaagcatgcatctcggcgctatctc 45130

Score = 1318 bits (665), Expect = 0.0
Identities = 684/690 (99%), Gaps = 4/690 (0%)
Strand = Plus / Minus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta 1702
|||||
Sbjct: 7431 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta 7372

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt 1762
|||||
Sbjct: 7371 tcaagtaccatacttctatccaaaccattcatttcg----cctttttgataacctctctt 7316

Query: 1763 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact 1822
|||||
Sbjct: 7315 atagtctttttgggtcttccctctgcctcgaattgtttgtcttctctccatctgggtctact 7256

Query: 1823 ctccctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatctt 1882
|||||

Sbjct: 7255 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt 7196

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta 1942
 |||

Sbjct: 7195 tccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcgtttcta 7136

Query: 1943 attttatcctgtcagagtcttaccacacatccaccgcaacatcctcatctccgctacacct 2002
 |||

Sbjct: 7135 attttatcctatcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct 7076

Query: 2003 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt 2062
 |||

Sbjct: 7075 actttattctcatggttggtctcttgaccgccaacattctgttccgtacaaaatcgccggt 7016

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac 2122
 |||

Sbjct: 7015 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac 6956

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct 2182
 |||

Sbjct: 6955 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct 6896

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg 2242
 |||

Sbjct: 6895 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg 6836

Query: 2243 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta 2302
 |||

Sbjct: 6835 ataatatggtctcctattttccacctctgagttagaaaccctccttcttttgttgaactta 6776

Query: 2303 cattccatataactccgatttgcttctgctt 2332
 |||

Sbjct: 6775 cattccatataactccgatttgcttctgctt 6746

>[gb|ACUP01000003.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont3, whole genome
 shotgun sequence

Length = 203593

Score = 1497 bits (755), Expect = 0.0

Identities = 800/815 (98%)

Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtgggggtcggctacatggatcaacttccgccataatgttcta 1702

|||||

Sbjct: 134419 aacgccttatcccactaggtgaggtcggctacatggatcaacttccgccataatgttcta
134478

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 134479 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
134538

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 134539 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctggtctact
134598

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
1882

|||||
Sbjct: 134599 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctatatt
134658

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 134659 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
134718

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 134719 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacgcct
134778

Query: 2003 actttattctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 134779 actttagtctcatgttggtccttgaccgccaacattctgttccgtacaaaatcgccggt
134838

Query: 2063 cttaccgcagtcgataaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 134839 cttaccgcagtcgataaaactttccctttagcttgatcggtacctttgcatcacataac
134898

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccctt
2182

|||||

Query: 1703 tcaagtaccatactttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 185524 tcaagtaccatacttctatccaaatcattaagttcgagatccttcttgataacctctctt
185583

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 185584 atagtctttttgggtcttcctctgcctcgaattgtttgccttctctccatctgggtctact
185643

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 185644 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
185703

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 185704 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
185763

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 185764 attttatcctgtcgagtcttactacacatccaccgcaacatcctcatctccgctacacct
185823

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 185824 actttagtctcatggttggtctttgactgccaacattctgttccgtacaaaatcgccgat
185883

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 185884 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
185943

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
2182

|||||
Sbjct: 185944 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatcccct
186003

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatattaaccgtgtgacttgaggg
2242

|||||

Sbjct: 186004 tcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgaggg
 186063

Query: 2243 ataatatgggtctcctattttcacctctgagttagaaaccctccttcttttgttgaactta
 2302

|||||
 Sbjct: 186064 ataatatgggtctcctattttcacctctgagttagataccctcctacttttgttgaactta
 186123

Query: 2303 cattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagctcgt
 2362

|||||
 Sbjct: 186124 cattccatataactccgatttgcttctgcttaggcgaaagctatgtgtttctagagctcgt
 186183

Query: 2363 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 2422

|||||
 Sbjct: 186184 ctccaagttttcaacctctcattcaactcctccctcgactctccaaggaggactatgtca
 186243

Query: 2423 tctgcaaaaagcatgcatctcggcgctatctcttg 2457

|||||
 Sbjct: 186244 tctgcaaaaacatgcatctcggcgctatctcttg 186278

>[gb|GG730433.1](#) Glycine max unplaced genomic scaffold GLYMA scaffold_165,
 whole genome

shotgun sequence
 Length = 28231

Score = 1350 bits (681), Expect = 0.0
 Identities = 693/697 (99%)
 Strand = Plus / Plus

Query: 1761 ttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtcta
 1820

|||||
 Sbjct: 20753 ttatagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtcta
 20812

Query: 1821 ctctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctat
 1880

|||||
 Sbjct: 20813 ctctcctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctat
 20872

Query: 1881 tttccaccatcttctctacaataggcgctactccaaccctctctctaataagcttcggttc
 1940

|||||
Sbjct: 20873 tttccaccatcttctctacaataggcgctactccaaccctctctctaatagcttcgtttc
20932

Query: 1941 taattttatcctgtcgcgagtcttaccacacatccaccgcaacatcctcatctccgctacac
2000

|||||
Sbjct: 20933 taattttatcctgtcgcgagtcttaccacacatccaccgcaacatcctcatctccgctacac
20992

Query: 2001 ctactttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccg
2060

|||||
Sbjct: 20993 ctactttattctcatgttggtcttgaccgcccacattctgttccgtacaaaatcgccg
21052

Query: 2061 gtcttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcatcacata
2120

|||||
Sbjct: 21053 gtcttaccgcagtcgcgataaaaactttccctttagcttgatcggtacctttgcattacata
21112

Query: 2121 acacccccgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccc
2180

|||||
Sbjct: 21113 acacctacgatgcttttctccatttcatccatcctgcttgaatgcatgattcacatccc
21172

Query: 2181 cttcaatttcccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgag
2240

|||||
Sbjct: 21173 cttcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttgag
21232

Query: 2241 ggataaatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaact
2300

|||||
Sbjct: 21233 ggataaatatggtctcctattttccactctgagttagaaaccctccttcttttggtgaact
21292

Query: 2301 tacattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctc
2360

|||||
Sbjct: 21293 tacattccatatactccgatttgcttctgcttaggcgaaagccatgtgttctagagctc
21352

Query: 2361 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
2420

|||||

Sbjct: 21353 gtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatgt
 21412

Query: 2421 catctgcaaaaagcatgcatctcggcgctatctcttg 2457
 |||||
 Sbjct: 21413 catctgcaaaaagcatgcatctcggcgctatctcttg 21449

Score = 182 bits (92), Expect = 7e-43
 Identities = 98/100 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 20635 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 20694

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagat 1742
 |||||
 Sbjct: 20695 tcaagtaccatacttctatccaaatcattaagttcgagat 20734

>[gb|ACUP01000218.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont218, whole
 genome shotgun
 sequence
 Length = 313031

Score = 1180 bits (595), Expect = 0.0
 Identities = 637/651 (97%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702
 |||||
 Sbjct: 64851 aacgccttatcccactaggtgggggtcacctacatggatcaacttccgccataatgttcta
 64792

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||
 Sbjct: 64791 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttataacctctctt
 64732

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822
 |||||

Sbjct: 64731 atagtctttttgggtcttctctgctcgaattgtttgccttctctccatctggtctact
64672

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 64671 ctctcactatagagtctaccggtcttctctctacatgcccaaacaacctaagtctattt
64612

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 64611 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcatttcta
64552

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
2002

|||||
Sbjct: 64551 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacct
64492

Query: 2003 actttattctcatgttggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
2062

|||||
Sbjct: 64491 actttattctcatattgggtcttgaccgccccaacattctgttccgtacaaaatcgccggt
64432

Query: 2063 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 64431 cttaccgcagtcgataaaaactttcccttttagcttgatcggtacctttgcatcacataac
64372

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||
Sbjct: 64371 acctccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
64312

Query: 2183 tcaatttcccatcatcctgtattacagaccaagatatttaaaccgtgtgacttgaggg
2242

|||||
Sbjct: 64311 tcaatttcccatcatcctgaattacagaccaagatatttaaaccgtgtgaattgaggg
64252

Query: 2243 ataatatggtctcctattttccctctgagttagaaaccctccttcttttg 2293
|||||

Sbjct: 64251 ataatatggtctcctattttccctctgagttagaaaccctcctacttttg 64201

Score = 75.8 bits (38), Expect = 1e-10
Identities = 53/58 (91%)
Strand = Plus / Minus

```
Query: 5117   aaaattaattggttacaaaatttattatctaaatttgcacataaatatacatta 5174
          |||||
Sbjct: 158839 aaaattaattgaaacaaaatttattatctaaatttacatgcgcattaaatatacatta
158782
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

```
Query: 6491   aaattaaaaaatatatattt 6510
          |||||
Sbjct: 197715 aaattaaaaaatatatattt 197696
```

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Plus

```
Query: 6269   ttttttgttttgttttaaaa 6288
          |||||
Sbjct: 256043 ttttttgttttgttttaaaa 256062
```

>[gb|GG730381.1](#)| Glycine max unplaced genomic scaffold GLYMA scaffold_62, whole genome

shotgun sequence
Length = 165295

Score = 1082 bits (546), Expect = 0.0
Identities = 555/558 (99%)
Strand = Plus / Plus

```
Query: 1643   aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702
          |||||
Sbjct: 90279 aacgccttttcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
90338
```

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 90339 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
90398

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
1822

|||||
Sbjct: 90399 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctggtctact
90458

Query: 1823 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
1882

|||||
Sbjct: 90459 ctccctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
90518

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgtttcta
1942

|||||
Sbjct: 90519 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttgtttcta
90578

Query: 1943 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
2002

|||||
Sbjct: 90579 attttatcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgtacacct
90638

Query: 2003 actttattctcatggttggtctttgaccgccaacattctgttcgtaaaaaatcgccggt
2062

|||||
Sbjct: 90639 actttattctcatggttggtctttgaccgccaacattctgttcgtaaaaaatcgccggt
90698

Query: 2063 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
2122

|||||
Sbjct: 90699 cttaccgcagtcgataaaaactttccctttagcttgatcggtacctttgcatcacataac
90758

Query: 2123 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
2182

|||||
Sbjct: 90759 acccccgatgcttttctccatttcatccatcctgcttgaatgcgatgattcacatccct
90818

Query: 2183 tcaatttcccatcatcc 2200

|||||
Sbjct: 90819 tcaatttcccatcatcc 90836

>[gb|ACUP01000038.1](#) Glycine max chromosome 1 GLYMChr_01_Cont38, whole genome
shotgun

sequence
Length = 31032

Score = 977 bits (493), Expect = 0.0
Identities = 538/553 (97%)
Strand = Plus / Minus

Query: 1742 tcctttttgataacctctcttatagtccttttgggtcttcctctgcctcgaattgtttgt
1801

|||||
Sbjct: 31032 tccttcttgataacctctcttatagtccttttgggtcttcctctgcctcgaattgtttgt
30973

Query: 1802 cttctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgc
1861

|||||
Sbjct: 30972 cttctctccatctggtctactctcctcactacagagtctaccggtcttctctctacatgc
30913

Query: 1862 ccaaaccacctaagtctattttccaccatcttctctacaataggcgctactccaaccctc
1921

|||||
Sbjct: 30912 aaaaaccacctaagtctattttccaccatcttctctacaataggcgctactctaaccctc
30853

Query: 1922 tctctaatagcttcgtttctaattttatcctgtcgagtcttaccacacatccaccgcaac
1981

|||||
Sbjct: 30852 tctctaatagctctgtttctaattttatcctgtcgagtcttaccacacatccaccgcaac
30793

Query: 1982 atcctcatctccgctacacctactttattctcatgttggtctttgaccgccaacattct
2041

|||||
Sbjct: 30792 atcctcatctccgctacacctactttagtctcatgttggtctttgaccgctcaacattct
30733

Query: 2042 gttccgtacaaaatcgccggtcttaccgcagtcgataaaaactttccctttagcttgatc
2101

|||||
Sbjct: 30732 gttccgtacaaaatcgccggtcttaccgcagtcgataaaaactttccctttagcttgatc
30673

Query: 2102 ggtacctttgcatcacataaacacccccgatgcttttctccatttcattccatcctgcttga
2161

Sbjct: 30672 ggtacctttgcatcacataacacccccgatgtttttctccatttcatccatcctgcttga
30613

Query: 2162 atgcgatgattcacatccccttcaatttcccatcatcctgtattacagaccaagatat
2221

Sbjct: 30612 atgcgatgattcacatccccttcaatttctccatcatcctgtattacaaaccaagatat
30553

Query: 2222 ttaaacggtgtgacttgagggataatatggtctcctattttcacctctgagttagaacc
2281

Sbjct: 30552 ttaaaccgtgtgacttgaggaataatatggtctcctattttcacctctgagttagatacc
30493

Query: 2282 ctccttcttttqt 2294

Sbjct: 30492 | | | | | | | | | | 30480

```
>gb|GG730421.1 Glycine max unplaced genomic scaffold GLYMAScaffold_121,  
whole genome
```

```
shotgun sequence
Length = 44738
```

Score = 771 bits (389), Expect = 0.0
Identities = 414/421 (98%), Gaps = 1/421 (0%)
Strand = Plus / Minus

Query: 1648 cttatcccactaggtggggtcgggtacatggatcaacttcgccataatgttctatcaag
1707

Sbjct: 25479 cttatcccactaggtggggtcggttacatggatcaacttcgccataatgttctatcaag
25420

Query: 1708 taccatacttctatccaaaccattaatttcgagatcctttttgataacctctcttatagt
1767

|||||
Sbjct: 25419 taccatacttctatccaaatcattaagttcgagatcctttttataacctctcttatagt
25360

Query: 1768 ctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctactctcct
1827

|||||
Sbjct: 25359 ctttttgggtcttcctctgcctcgaattgttgccttctctccatctggtctactctcct
25300

Query: 1828 cactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttccac
 1887
 |||||
 Sbjct: 25299 cactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattttccac
 25240

Query: 1888 catcttctctacaataggcgctactccaaccctctctctaataagcttcgtttctaatttt
 1947
 |||||
 Sbjct: 25239 catcttctctacaataggcgctactccaaccctctctctaataacttcgtttctaatttt
 25180

Query: 1948 atcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctacttt
 2007
 |||||
 Sbjct: 25179 atcctgtcgagtcttaccacacatccaccgcaacatcctcatctccgctacacctacttt
 25120

Query: 2008 attctcatggttggtctcttgaccgccaacattctgttccgtac-aaaatcgccggtctta
 2066
 |||||
 Sbjct: 25119 attctcatggttggtctcttgaccgccaacattctgttccgtacaaaaatcgccggtctta
 25060

Query: 2067 c 2067
 |
 Sbjct: 25059 c 25059

Score = 44.1 bits (22), Expect = 0.41
 Identities = 22/22 (100%)
 Strand = Plus / Plus

Query: 6491 aaattaaaaaatatatatttaa 6512
 |||||
 Sbjct: 37562 aaattaaaaaatatatatttaa 37583

>[gb|ACUP01000008.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont8, whole genome
 shotgun sequence
 Length = 225398

Score = 644 bits (325), Expect = 0.0
 Identities = 337/341 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
1702

|||||
Sbjct: 140386 aacgccttatccactaggtggggctcggctacatggatcaacttccgccataatgttcta
140445

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
1762

|||||
Sbjct: 140446 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
140505

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
1822

|||||
Sbjct: 140506 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
140565

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
1882

|||||
Sbjct: 140566 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagttctat
140625

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
1942

|||||
Sbjct: 140626 tccaccatcttctctacaataggcgctactccaaccctctctctaatagttcgtttcta
140685

Query: 1943 attttatcctgtcgcagtcttaccacacatccaccgcaacat 1983

|||||
Sbjct: 140686 attttatcctgtcgcagtcttaccacacatccaccgcaacat 140726

Score = 93.7 bits (47), Expect = 5e-16
Identities = 110/131 (83%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga
5176

|||||
Sbjct: 181880 aaaattaattgttacaaaatttattatgtaaacttatatgtgtattaaatataatataaa
181939

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc
5236

|||||

Sbjct: 181940 aatttttagtggttatatatatcaaccttaattatTTTTTaatataattgatctattagctc
 181999

Query: 5237 agttgggttaga 5247
 ||||| |||||
 Sbjct: 182000 agttgattaga 182010

Score = 71.9 bits (36), Expect = 2e-09
 Identities = 66/76 (86%)
 Strand = Plus / Minus

Query: 5117 aaaattaattggttacaaaatttattatctaaatttgcacataaaatatacattaga
 5176
 ||||||||||||||||||||||||||||| ||||| || ||| | ||| |||||||||
 Sbjct: 181780 aaaattaattggttacaaaatttattatgtaaacttatatgtgtattaagtatacattaga
 181721

Query: 5177 aatttttagtggttatat 5192
 ||||||||| |||||
 Sbjct: 181720 aatttttagtgatatat 181705

Score = 63.9 bits (32), Expect = 4e-07
 Identities = 35/36 (97%)
 Strand = Plus / Minus

Query: 5295 tcattaatttttaaattaatttgtaaaatatattttt 5330
 ||||||||||||||||| |||||||||||||||||
 Sbjct: 181610 tcattaatttttaaattattttgtaaaatatattttt 181575

Score = 48.1 bits (24), Expect = 0.026
 Identities = 36/40 (90%)
 Strand = Plus / Minus

Query: 5208 attttataacataattgatgtattagttcagttgggttaga 5247
 ||||| ||||||||| || ||||| |||||||||
 Sbjct: 181697 attttttaacataattaatctattagctcagttgggttaga 181658

>[gb|ACUP01000212.1](#)| Glycine max chromosome 1 GLYMAchr_01_Cont212, whole
 genome shotgun
 sequence
 Length = 128282

Score = 593 bits (299), Expect = e-166
 Identities = 302/303 (99%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 16476 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta
 16535

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 16536 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttataacctctctt
 16595

Query: 1763 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
 1822
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 16596 atagtctttttgggtcttcctctgcctcgaattggttgcttctctccatctgggtctact
 16655

Query: 1823 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 1882
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 16656 ctctcactacagagtctaccggtcttctctctacatgcccaaaccacctaagtctattt
 16715

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcggtttcta
 1942
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 16716 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtcttcggtttcta
 16775

Query: 1943 att 1945
 |||
 Sbjct: 16776 att 16778

>[gb|GG731155.1](#) Glycine max unplaced genomic scaffold GLYMA scaffold_1750,
 whole
 genome shotgun sequence
 Length = 3695
 Score = 591 bits (298), Expect = e-166
 Identities = 304/306 (99%)
 Strand = Plus / Plus

Query: 2151 atcctgcttgaatgcgatgattcacatccccttcaatttcccatcatcctgtattacag 2210
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1 atcctgcttgaatgcgatgattcacatccccttcaatttctccatcatcctgtattacag 60

Query: 2211 acccaagatatatttaaaccgtgtgacttgagggataaatatgggtctcctattttcacctctg 2270
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 61 acccaagatatatttaaaccgtgtgacttgagggataaatatgggtctcctattttcacctctg 120

Query: 2271 agttagaaaaccctccttcttttgttgaacttacattccatataactccgatttgcttctgc 2330
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 121 agttagaaaaccctccttcttttgttgaacttacattccatataactccgatttgcttctgc 180

Query: 2331 ttaggcgaaagccatgtgtttctagagctcgtctccaagtttccaacctctcattcaact 2390
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 181 ttaggcgaaagccatgtgtttctagagcttgtctccaagtttccaacctctcattcaact 240

Query: 2391 cctccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgcta 2450
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 241 cctccctcgactctccaaggaggactatgtcatctgcaaaaagcatgcatctcggcgcta 300

Query: 2451 tctctt 2456
 |||||
 Sbjct: 301 tctctt 306

>[gb|ACUP01000029.1](#) Glycine max chromosome 1 GLYMChr_01_Cont29, whole genome
 shotgun

sequence
 Length = 58173

Score = 577 bits (291), Expect = e-161
 Identities = 303/307 (98%)
 Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 1702
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 29579 aacgccttatcccactaggtggggctcggtacatggatcaacttccgccataatgttcta
 29638

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt
 1762
 |||||||||||||||||||||||||||||| ||||| ||||||||||||||||||||||||||||
 Sbjct: 29639 tcaagtaccatacttctatccaaatcattaagttcgagatcctttttgataacctctctt
 29698

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 29699 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 29758

Query: 1823 ctcctcactacagagtctaccgggtcttctctctacatgccccaaaccacctaagtctattt
 1882

|||||
 Sbjct: 29759 ctcctcactacagagtctaccgggtcttctctctacatgccccaaaccacccaagtctattt
 29818

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctctaatagtctcgttttcta
 1942

|||||
 Sbjct: 29819 tccaccatcttttctacaataggcgctactccaaccctctctctaatagtctcgttttcta
 29878

Query: 1943 attttat 1949

|||||
 Sbjct: 29879 attttat 29885

>[gb|ACUP01000121.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont121, whole
 genome shotgun

sequence
 Length = 190478

Score = 547 bits (276), Expect = e-152
 Identities = 282/284 (99%)
 Strand = Plus / Minus

Query: 1643 aacgccttatcccactaggtgggggtcggctacatggatcaacttccgccataatgttcta
 1702

|||||
 Sbjct: 120826 aacgccttatcccattaggtgggggtcggctacatggatcaacttccgccataatgttcta
 120767

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
 1762

|||||
 Sbjct: 120766 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataaacctctctt
 120707

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 1822

|||||
 Sbjct: 120706 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact
 120647

Query: 1823 ctctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
1882
 || ||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 120646 cttctcactacagagtctaccgggtcttctctctacatgcccaaaccacctaagtctatatt
120587

Query: 1883 tccaccatcttctctacaataggcgctactccaaccctctctct 1926
 ||||||||||||||||||||||||||||||||||
Sbjct: 120586 tccaccatcttctctacaataggcgctactccaaccctctctct 120543

>[gb|GG730392.1](#) Glycine max unplaced genomic scaffold GLYMA scaffold_73, whole
genome
 shotgun sequence
 Length = 149568

Score = 511 bits (258), Expect = e-142
Identities = 273/278 (98%)
Strand = Plus / Plus

Query: 2180 ccttcaatttccccatcatcctgtattacagacccaagatatttaaaccgtgtgacttga
2239
 ||||||||||| ||||||||||||||||||||||||||||||||||||||||
Sbjct: 51031 ccttcaatttctccatcatcctgtattacagacccaagatatttaaaccgtgtgacttga
51090

Query: 2240 gggataatatggtctcctattttcacctctgagttagaaaccctccttcttttgttgaac
2299
 |||||||||||||||||||||||||||||||||| ||||||||||||||||||||
Sbjct: 51091 gggataatatggtctcctattttcacctctgagttataaaccctccttcttttgttgaac
51150

Query: 2300 ttacattccatataactccgatttgcttctgcttaggcgaaagccatgtgtttctagagct
2359
 |||||||||||||||||||||||||||||||||| ||||||||||||||||||||
Sbjct: 51151 ttacattccatataactccgatttgcttctgcttaggcgaaaaccatgtgtttctagagct
51210

Query: 2360 cgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatg
2419
 |||||||||||||||||| ||||||||||||||||||||||||||||||||||||
Sbjct: 51211 cgtctccaagtttccaacctctcattcaactcctccctcgactctccaaggaggactatg
51270

Query: 2420 tcattctgcaaaaagcatgcatctcggcgctatctcttg 2457
 |||||||||||||||||||||||||| ||||||||
Sbjct: 51271 tcattctgcaaaaagcatgcatctcggcactatctcttg 51308

>[gb|ACUP01000011.1](#) Glycine max chromosome 1 GLYMChr_01_Cont11, whole genome
shotgun

sequence
Length = 4956

Score = 381 bits (192), Expect = e-102
Identities = 207/212 (97%)
Strand = Plus / Plus

Query: 1643 aacgccttatccactaggtggggtcggctacatggatcaacttccgccataatgttcta 1702
|||||
Sbjct: 4745 aacgccttatccattaggtggggtcggctacatggatcaacttccgccataatgttcta 4804

Query: 1703 tcaagtaccatacttctatccaaaccattaatttcgagatcctttttgataacctctctt 1762
|||||
Sbjct: 4805 tcaagtaccatacttctatccaaatcattaatttcgagatccttttttataacctctctt 4864

Query: 1763 atagtctttttgggtcttcctctgcctcgaattgtttgtcttctctccatctgggtctact 1822
|||||
Sbjct: 4865 atagtctttttgggtcttcctctgcctcgaatagttgtcttctctccatctgggttact 4924

Query: 1823 ctctcactacagagtctaccggtcttctctc 1854
|||||
Sbjct: 4925 ctctcactacagagtctaccggtcttctctc 4956

>[gb|ACUP01000042.1](#) Glycine max chromosome 1 GLYMChr_01_Cont42, whole genome
shotgun

sequence
Length = 41091

Score = 190 bits (96), Expect = 3e-45
Identities = 169/192 (88%), Gaps = 1/192 (0%)
Strand = Plus / Plus

Query: 1198 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagttta 1257
|||||
Sbjct: 9784 catacctttctcggccttttggctaagatcaagtgtagtatctgttcttatcagttta 9843

Query: 1258 atctgatatgtgggtcattggccacatgatattaaatttattttttgaaggggtggggcc 1317
|||||
Sbjct: 9844 atctgatatgtggaccattggtccacacgatattaaatttattttttgagggagagggtc 9903

Query: 1318 tgacatagtagcttgctactgggggttcttaagcgtagcctgtgtcttgactactgcat 1377
|| |||||
Sbjct: 9904 catcacagtagcttgctact-gggattctcgagcgtcgctcttgtcttgactactgcaa 9962

Query: 1378 gggcctggcgca 1389

Query: 4193 aaagttcaaaggatagagaaattgcataagaggga 4227

|||||
 Sbjct: 10560 aaagttcaaagggcagagaaattgaataagagggga 10594

Score = 42.1 bits (21), Expect = 1.6
 Identities = 21/21 (100%)
 Strand = Plus / Minus

Query: 5549 ttttttttaaaaaaaaaaaaaaac 5569
 |||||
 Sbjct: 14288 ttttttttaaaaaaaaaaaaaaac 14268

>[gb|ACUP01000066.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont66, whole genome
 shotgun

sequence
 Length = 379986

Score = 174 bits (88), Expect = 2e-40
 Identities = 227/272 (83%), Gaps = 1/272 (0%)
 Strand = Plus / Minus

Query: 7485 caatcaaataatttggggagggggtcttcaaaacttgattcaaggttcattgtatcatcg
 7544
 ||||| || ||||| || |||| ||||| ||||| ||||| |||||
 Sbjct: 347181 caatcaaacaatttggggaggggatctttaaactcaattcaaggttcattgcttcatgg
 347122

Query: 7545 aggtattcacccaaaccctccaaattcaaagagcttgagaaactgggtgggtgtgtgca
 7604
 || |||| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 347121 agatatttatccaaaccctccaaattcaaagagctggcataaattgggtgggtgagtgca
 347062

Query: 7605 tatgtttatgtgggtgtgtctacgggtgataacataaaaactcaaggcatgtgaagttgaag
 7664
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 347061 catgtttgtgtgggtgtgtctttgggtggcaatatataactccaagcatgtgagcttgaag
 347002

Query: 7665 agtttcccaaataatagaaaacatagtaattatttcctcatcatcttgacagcatacatgcc
 7724
 | ||| | || ||||| ||||| || || | ||||| ||||| ||||| |||||
 Sbjct: 347001 attttgacgaagatagaaaacatagtc-tacgttctcatcatcttgcaacatgcatgcc
 346943

Query: 7725 ctgtactgaaaacaatcaccaacaatgatac 7756
 ||||| ||||| ||||| ||||| |||||

Sbjct: 346942 ctgtactggccacaatcaccaacaaatgatac 346911

Score = 79.8 bits (40), Expect = 7e-12
Identities = 120/146 (82%), Gaps = 3/146 (2%)
Strand = Plus / Plus

Query: 6872 actttttcagcgtatacacaagatgtatgtagttcctataactcatggtgagcatgcttata
6931

||||| || ||||||| ||||||||| || || ||||||| ||| ||||||| |
Sbjct: 371775 actttccaacgtatacatgagatgtatgtaatttctgtactcatgatgaacatgcttaca
371834

Query: 6932 aa---caacaacatgagaacaaaacatgtgcattttttgaaatttgacagtcacacta
6988

| ||||||||||||||| ||||| | |||| |||||| |||| |||||| |
Sbjct: 371835 actagcaacaacatgagaacaagtcagtgtgaaacttttggaatttgccacaatcacacca
371894

Query: 6989 cctttcatctagcttgaccatgaaat 7014

||||||| || ||||| |||||
Sbjct: 371895 cctttcatccagcctgaccgtgaaat 371920

Score = 77.8 bits (39), Expect = 3e-11
Identities = 75/87 (86%)
Strand = Plus / Plus

Query: 6580 aaaatattttaatttgaaataatacaacaaaaattttaaaatacaaaacaatatggcataa
6639

||||||||||||||||| ||||||||||||| ||| ||||||||| |||||| | ||
Sbjct: 371461 aaaatattttaatttgaaataatacaacaaaaattttacaaatacaaaaaatatgacttat
371520

Query: 6640 aattaatgttggttgacctgagcctaca 6666

| | || ||||||||| |||||||||
Sbjct: 371521 attcaacgttggttgacctgagcctaca 371547

Score = 60.0 bits (30), Expect = 7e-06
Identities = 90/109 (82%), Gaps = 2/109 (1%)
Strand = Plus / Plus

Query: 7179 ttgcgacttctctccccctttgggtgaacaatgcattacacctagtatagggtgatttta
7238

Score = 54.0 bits (27), Expect = 4e-04
Identities = 52/59 (88%), Gaps = 1/59 (1%)
Strand = Plus / Plus

Score = 42.1 bits (21), Expect = 1.6
Identities = 21/21 (100%)
Strand = Plus / Minus

Score = 42.1 bits (21), Expect = 1.6
Identities = 30/33 (90%)
Strand = Plus / Plus

Score = 40.1 bits (20), Expect = 6.4
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 6292 tttgtattttttattttttttt 6311
 |||||

Sbjct: 211872 tttgtatTTTTTTTTTTTTTTT 211853

>[gb|ACUP01000024.1](#) Glycine max chromosome 1 GLYMAchr_01_Cont24, whole genome
shotgun

sequence
Length = 137234

Score = 172 bits (87), Expect = 7e-40
Identities = 90/91 (98%)
Strand = Plus / Plus

Query: 1643 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta 1702
|||||
Sbjct: 9539 aacgccttatcccactaggtggggctcggctacatggatcaacttccgccataatgttcta 9598

Query: 1703 tcaagtaccatacttctatccaaaccattaa 1733
|||||
Sbjct: 9599 tcaagtaccatatttctatccaaaccattaa 9629

>[gb|GG730530.1](#) Glycine max unplaced genomic scaffold GLYMA scaffold_427,
whole genome

shotgun sequence
Length = 10943

Score = 170 bits (86), Expect = 3e-39
Identities = 198/234 (84%), Gaps = 6/234 (2%)
Strand = Plus / Plus

Query: 5117 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga 5176
|||||
Sbjct: 9159 aaaattaattgttacaaaatttattatctaaatttgcacataaatatacattaga 9214

Query: 5177 aatttttagtggttatatttagtgaaattaattattttataacataattgatgtattagttc 5236
|||||
Sbjct: 9215 aatttttagtggttacatatttagtgacattaattattttataaatataattgatttattagttt 9274

Query: 5237 agttggtagagcattatgttaataatgtgaaagtcaaaagttcaattcttacttggatc 5296
|||||
Sbjct: 9275 agttggtagagtggtgtgtaataacacaaaactcgaagggttgattcttgcttggggtc 9334

Query: 5297 attaatTTTaaattaatttGTaaaatatTTTTTgaaaaaaaaattataaaaaa 5350
|||||
Sbjct: 9335 attaatTTTaaataaatttg--aaaaacattTTTTgaaaaaaaaataaaaaaaa 9386

Database: ../blastlibs/G_max_Genome
Posted date: Mar 12, 2010 10:36 AM
Number of letters in database: 996,379,823
Number of sequences in database: 1418

Lambda	K	H
1.37	0.711	1.31

Gapped

Lambda	K	H
1.37	0.711	1.31

Matrix: blastn matrix:1 -3
Gap Penalties: Existence: 5, Extension: 2
Number of Hits to DB: 15,592,330
Number of Sequences: 1418
Number of extensions: 15592330
Number of successful extensions: 10637
Number of sequences better than 10.0: 132
Number of HSP's better than 10.0 without gapping: 313
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 0
Number of HSP's gapped (non-prelim): 9422
length of query: 7762
length of database: 996,379,823
effective HSP length: 22
effective length of query: 7740
effective length of database: 996,348,627
effective search space: 7711738372980
effective search space used: 7711738372980
T: 0
A: 0
X1: 11 (21.8 bits)
X2: 15 (29.7 bits)
S1: 12 (24.3 bits)
S2: 20 (40.1 bits)

BLASTP 2.2.21 [Jun-14-2009]

Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schaffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Reference for compositional score matrix adjustment: Altschul, Stephen F., John C. Wootton, E. Michael Gertz, Richa Agarwala, Aleksandr Morgulis, Alejandro A. Schaffer, and Yi-Kuo Yu (2005) "Protein database searches using compositionally adjusted substitution matrices", FEBS J. 272:5101-5109.

Query=
(86 letters)

Database: /usr/local/blast/db/blastlibs/nr
13,473,798 sequences; 4,621,495,809 total letters

Searching.....done

***** No hits found *****

BLASTP 2.2.21 [Jun-14-2009]

Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schaffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Reference for compositional score matrix adjustment: Altschul, Stephen F., John C. Wootton, E. Michael Gertz, Richa Agarwala, Aleksandr Morgulis, Alejandro A. Schaffer, and Yi-Kuo Yu (2005) "Protein database searches using compositionally adjusted substitution matrices", FEBS J. 272:5101-5109.

Query=
(224 letters)

Database: /usr/local/blast/db/blastlibs/nr
13,473,798 sequences; 4,621,495,809 total letters

Searching.....done

***** No hits found *****

BLASTP 2.2.21 [Jun-14-2009]

Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schaffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Reference for compositional score matrix adjustment: Altschul, Stephen F., John C. Wootton, E. Michael Gertz, Richa Agarwala, Aleksandr Morgulis, Alejandro A. Schaffer, and Yi-Kuo Yu (2005) "Protein database searches using compositionally adjusted substitution matrices", FEBS J. 272:5101-5109.

Query= ÍP--@p

%(ĐPašP|ñz°Êýγ;UFN%ýÉ„™ú,c¶à 8, N

Æ°@“zŮÆù)p\½¼µfÆR7»â€
 ŠLǾ"[`¼²Å~F-fô.Ãf³f %s~V½' -OŮo@q[8Èæ•
 (61 letters)

Database: /usr/local/blast/db/blastlibs/nr
 13,473,798 sequences; 4,621,495,809 total letters

Searching.....done

***** No hits found *****

Database: /usr/local/blast/db/blastlibs/nr
 Posted date: Apr 13, 2011 11:46 AM
 Number of letters in database: 4,621,495,809
 Number of sequences in database: 13,473,798

Lambda	K	H
0.347	0.148	0.578

Gapped

Lambda	K	H
0.267	0.0410	0.140

Matrix: BLOSUM62
 Gap Penalties: Existence: 11, Extension: 1
 Number of Sequences: 13473798
 Number of Hits to DB: 2,586,574,256
 Number of extensions: 76701273
 Number of successful extensions: 181855
 Number of sequences better than 1.0: 0
 Number of HSP's gapped: 181899
 Number of HSP's successfully gapped: 0
 Length of database: 4,621,495,809
 Neighboring words threshold: 11
 Window for multiple hits: 40
 X1: 14 (7.0 bits)
 X2: 38 (14.6 bits)
 X3: 64 (24.7 bits)
 S1: 37 (21.3 bits)
 S2: 84 (37.0 bits)