

BLAST ® » [blastn suite-2sequences](#) » RID-G2CGS096114

BLAST Results

Blast 2 sequences

lcl|/home/jayp/bigtest/Executable File 1.exe

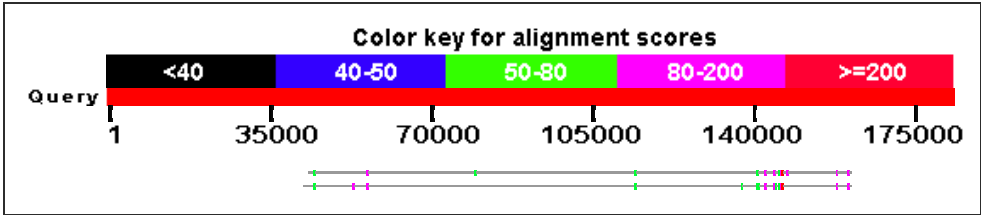
RID [G2CGS096114](#) (Expires on 04-04 23:09 pm)

Query ID lcl|Query_82795
Description lcl|/home/jayp/bigtest/Executable File 1.exe
Molecule type nucleic acid
Query Length 183119

Subject ID 3 subjects
Description [See details](#)
Molecule type nucleic acid
Subject Length n/a
Program BLASTN 2.3.1+

Graphic Summary

Distribution of 389 Blast Hits on the Query Sequence



Descriptions

Sequences producing significant alignments:

Description	Max score	Total score	Query cover	E value	Ident	Accession
cl /home/jayp/bigtest/rundll32.exe	246	12846	2%	3e-64	91%	Query_82797
cl /home/jayp/bigtest/groovemonitor.exe	226	15355	2%	4e-58	92%	Query_82799

Alignments

|cl|/home/jayp/bigtest/rundll32.exe

Sequence ID: |cl|Query_82797 Length: 178176 Number of Matches: 179

Range 1: 58645 to 58825

Score	Expect	Identities	Gaps	Strand	Frame
246 bits(133)	3e-64()	175/193(91%)	12/193(6%)	Plus/Plus	
Features:					
Query 145960	GGGGG	CACGCTGCTGGCACGCGTGCATGCGGGCGTGTGGGACTGCTAGCGGGATTGAGT	146019		
Sbjct 58645	GGGGG	CACGCTGCTGGCACGCGTGCATGCGGGCGTGTGGGACTGCTAGCGGGATTGAGT	58704		
Query 146020	GCCGGCAAGCACGTGCGCCGGCATGAGTGC	GGGATC	146079		
Sbjct 58705	GCCGGCAAGCACGTGCGCCGGCATGAGTGC	GGGATC	58760		
Query 146080	GAGTGTAGGCAAGCGTGAGGGCATGCGGGTGCGCCGGCATGCGGGTACGCTGGCAGGCGG	146139			
Sbjct 58761	GAGTGTAGGCAAGCGTGAGGGCATGCGGGTGCTGGCA--CG--CG--T-GCATGCGG	58812			
Query 146140	GTG	146152			
Sbjct 58813	GTG	58825			

Range 2: 59344 to 59478

Score	Expect	Identities	Gaps	Strand	Frame
206 bits(111)	5e-52()	127/135(94%)	0/135(0%)	Plus/Plus	
Features:					
Query 145943	AT	146002			
Sbjct 59344	AT	59403			
Query 146003	TGCTAGCGGGATTGAGTGCCGGCAAGCACGTGCGCCGGCATGAGTGC	146062			
Sbjct 59404	TGCTAGCGGGATTGAGTGCCGGCAAGCACGTGCGCCGGCATGAGTGC	59463			
Query 146063	ttCGTTTGGTGAGC	146077			
Sbjct 59464	TGCGTTTGTAGC	59478			

Range 3: 57557 to 57702

Score	Expect	Identities	Gaps	Strand	Frame
198 bits(107)	8e-50()	135/148(91%)	4/148(2%)	Plus/Plus	
Features:					
Query 144244	GGTTGATCGCAAGCTAGCGGGATAGATA	144303			
Sbjct 57557	GGTTGATCGCAAGCTAGCGGGATAGATA	57616			
Query 144304	GAGGGATCGATCGCGGGCACGAGTGGTTGATCGCAAGCTAGCGGGATAGATA	144363			
Sbjct 57617	GAGGGATCGATCGCGGGCACGAGTGGTTGATCGCAAGCTAGCGGGATAGATA	57676			
Query 144364	TT-TGGTCTGCGGGC-TGGATTGGTCGC	144389			
Sbjct 57677	TTGTGGTA-GCGGGAGTGG-TTGATCGC	57702			

Range 4: 56712 to 56851

Score	Expect	Identities	Gaps	Strand	Frame
169 bits(91)	7e-41()	127/144(88%)	4/144(2%)	Plus/Plus	

Features:

```

Query 145439 GttttttttAGTCTTTCGGGAGCCGGCGTGC GGGTTAGCCTGCTGGATCGGGTGCAAGTA 145498
Sbjct 56712 GTTTTTTTTGTGTTGGGGGAGCCGGCGTGC GGGTTAGCCTGCTGGATCGGGTGCAAGTA 56771
Query 145499 GGAGGGCATGAGTGCCGGTTCGACGGAGTGCGGTTTTTGCATTTTGTAGCATGCAAGAT 145558
Sbjct 56772 GGAGGGCATGAGTGCCGGTTCGACGGAGTGCGGTTTT-G--TGTT-TTAGTATGCAAGCT 56827
Query 145559 AGCGGGTCTGCTGGCACGCGTGCA 145582
Sbjct 56828 AGCTGGCATGTTGGCATGCATGCA 56851

```

Range 5: 13717 to 13808

Score	Expect	Identities	Gaps	Strand	Frame
143 bits(77)	4e-33()	87/92(95%)	0/92(0%)	Plus/Plus	

Features:

```

Query 56152 CTCAGTGGACATCTCATTCTCTCATTGCTCGGTAGACTTGGTTGGTGACCTAAGGTCGA 56211
Sbjct 13717 CTCAGTGGACATCTCATTCTCTCATTGCTCGGTAGAGCTGGTTGGTGACCTATTGTCTA 13776
Query 56212 ttttttttGGCGGGCGATTACTCAGCGGACCT 56243
Sbjct 13777 TTTTTTTGGCGGGCGATTACTCAGCGGACCT 13808

```

Range 6: 59457 to 59543

Score	Expect	Identities	Gaps	Strand	Frame
139 bits(75)	5e-32()	83/87(95%)	0/87(0%)	Plus/Plus	

Features:

```

Query 146784 ttttttttCTCTTTTGTAGCAAGCAGGATTGCTGGATCGCGGGGTAGAGTGATCGCCG 146843
Sbjct 59457 TTTTTTTGCGTTTTTGTAGCAAGCAGGATTGCTGGATCGCGGGGTAGAGTGATCGCCG 59516
Query 146844 GCACGCGAGGGATtttttttCACGTTT 146870
Sbjct 59517 GCACGCGAGGGATTTTTTTTAACGTTT 59543

```

Range 7: 59269 to 59353

Score	Expect	Identities	Gaps	Strand	Frame
135 bits(73)	7e-31()	81/85(95%)	0/85(0%)	Plus/Plus	

Features:

```

Query 144196 TTTTCGACTTTCGGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGGGTGATCGCAA 144255
Sbjct 59269 TTTTCAATTGTGGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGGGTGATCGCAA 59328
Query 144256 GCTAGCGGGATAGATAtttttttA 144280
Sbjct 59329 GCTAGCGGGATAGATATTTTTTTA 59353

```

Range 8: 59072 to 59156

Score	Expect	Identities	Gaps	Strand	Frame
134 bits(72)	2e-30()	81/85(95%)	1/85(1%)	Plus/Plus	

Features:

```

Query 144272 ttttttttAAGATTTT-GTGAGCGGGAGTGTTAGAGGGATCGATCGCGGGCACGAGTGGT 144330
Sbjct 59072 TTTTTTTTATTTTTTGGTGAGCGGGAGTGTTAGAGGGATCGATCGCGGGCACGAGTGGT 59131
Query 144331 TGATCGCAAGCTAGCGGGATAGATA 144355
Sbjct 59132 TGATCGCAAGCTAGCGGGATAGATA 59156

```

Range 9: 56445 to 56520

Score	Expect	Identities	Gaps	Strand	Frame
124 bits(67)	1e-27()	73/76(96%)	0/76(0%)	Plus/Plus	

Features:

```

Query 144700 ttttGCCCTTTCGGTAGCGGGAGTGTCGCCGGCATGCGGGGTGCAAGCCGGCACGAGT 144759
Sbjct 56445 TTTTGCGCTTGTGGTAGCGGGAGTGTCGCCGGCATGCGGGGTGCAAGCCGGCACGAGT 56504
Query 144760 GCGGGATCttttttt 144775
Sbjct 56505 GCGGGATCTTTTTTT 56520

```

Range 10: 56917 to 56985

Score	Expect	Identities	Gaps	Strand	Frame
122 bits(66)	5e-27()	68/69(99%)	0/69(0%)	Plus/Plus	

Features:

Query 147116 TTTGGTGAGCGGGAGTGGTTGATCGCAAGCTAGTTGGCGTGCCTGATCGCGGGATAGATA 147175
 Sbjct 56917 TTTCTGTAGCGGGAGTGGTTGATCGCAAGCTAGTTGGCGTGCCTGATCGCGGGATAGATA 56976
 Query 147176 TTTTTTTTA 147184
 Sbjct 56977 TTTTTTTTA 56985

Range 11: 57825 to 57896

Score	Expect	Identities	Gaps	Strand	Frame
117 bits(63)	2e-25()	69/72(96%)	0/72(0%)	Plus/Plus	

Features:

Query 144632 TTTTTTTTGCCTTTGGTGAGCGGGAGTGTATGCTGGATAGAGTGTGGGATCGATCGCAA 144691
 Sbjct 57825 TTTTTTTTTCCTTTCTGTAGCGGGAGTGTATGCTGGATAGAGTGTGGGATCGATCGCAA 57884
 Query 144692 GATCTTTTTTTT 144703
 Sbjct 57885 GATCTTTTTTTT 57896

Range 12: 57137 to 57209

Score	Expect	Identities	Gaps	Strand	Frame
113 bits(61)	3e-24()	69/73(95%)	0/73(0%)	Plus/Plus	

Features:

Query 144504 TTTTTTTATCCTTTTGTGAGCGGGAGTGTAGCAAGCAGGCAGGCTGGCACGCGTGTAT 144563
 Sbjct 57137 TTTTTTTCTGATTTGGTGAGCGGGAGTGTAGCAAGCAGGCAGGCTGGCACGCGTGTAT 57196
 Query 144564 GCCGGCACGCGGG 144576
 Sbjct 57197 GCCGGCACGCGGG 57209

Range 13: 58461 to 58545

Score	Expect	Identities	Gaps	Strand	Frame
113 bits(61)	3e-24()	77/85(91%)	0/85(0%)	Plus/Plus	

Features:

Query 144964 TTTTGGTTTTTGGTGAGCGGGAGTGGTAGAGTGCTGGATCGAGTGAGGGATTGTCGGCAC 145023
 Sbjct 58461 TTTTGCTCTTTCTGTAGCGGGAGTGGTAGAGTGCTGGATCGAGTGAGGGATTGTCGGCAC 58520
 Query 145024 GCGCGCAAGTTGTTTTAGAAATTCG 145048
 Sbjct 58521 GCGCGCAAGGGATTTACCAATTCG 58545

Range 14: 2678 to 2740

Score	Expect	Identities	Gaps	Strand	Frame
111 bits(60)	1e-23()	62/63(98%)	0/63(0%)	Plus/Plus	

Features:

Query 144077 TTGTTTTTTTTGTCAGTGGGGTCGTACGTGGGTATTATATATCTCACGCGTGCATGCATt 144136
 Sbjct 2678 TTTTTTTTTTGTGTCAGTGGGGTCGTACGTGGGTATTATATATCTCACGCGTGCATGCATt 2737
 Query 144137 ttt 144139
 Sbjct 2738 ttt 2740

Range 15: 59469 to 59536

Score	Expect	Identities	Gaps	Strand	Frame
110 bits(59)	4e-23()	66/69(96%)	1/69(1%)	Plus/Plus	

Features:

Query 146724 TTTTGTAGCAAGCAGGATTGCTGGATCGCGGGTAGAGTGATCGCCGGCACGCGAGTTG 146783

Sbjct 59469 TTTTGTAGCAAGCAGGATTGCTGGATCGCGGGTAGAGTGATCGCCGGCACGCGAGG-G 59527
 Query 146784 tttttttttt 146792
 Sbjct 59528 ATtttttttt 59536

Range 16: 56397 to 56461

Score	Expect	Identities	Gaps	Strand	Frame
102 bits(55)	7e-21()	62/65(95%)	1/65(1%)	Plus/Plus	

Features:

Query 145540 TTTTGTAGCATGCAAGATAGCGGGTCTGCTGGCACGCGTGATGCGGTTTTACGTTT-T 145598
 Sbjct 56397 TTTTGTAGCATGCAAGATAGCGGGTCTGCTGGCACGCGTGATGCGGTTTTGCGCTTGT 56456
 Query 145599 GGTAG 145603
 Sbjct 56457 GGTAG 56461

Range 17: 54616 to 54676

Score	Expect	Identities	Gaps	Strand	Frame
100 bits(54)	2e-20()	59/61(97%)	1/61(1%)	Plus/Plus	

Features:

Query 144080 ttttt-tttGTCAGTGGGGTCGTACGTGGGTATTATATATCTCACGCGTGATGCAtttt 144138
 Sbjct 54616 TTTTTCGTTGTCAGTGGGGTCGTACGTGGGTATTATATATCTCACGCGTGATGCATTTT 54675
 Query 144139 t 144139
 Sbjct 54676 T 54676

Range 18: 57093 to 57169

Score	Expect	Identities	Gaps	Strand	Frame
100 bits(54)	2e-20()	70/77(91%)	4/77(5%)	Plus/Plus	

Features:

Query 144232 GCTGGAGTGCGGGGTTGATCGCAAGCTAGCGGGATAGAT----AttttttttAAGATTTT 144287
 Sbjct 57093 GCTGGAGTGCGGGGTTGATCGCAAGCTAGCGGGATAGATAGGGATTTTTCTGATTTG 57152
 Query 144288 GTGAGCGGGAGTGTAG 144304
 Sbjct 57153 GTGAGCGGGAGTGTAG 57169

Range 19: 58021 to 58098

Score	Expect	Identities	Gaps	Strand	Frame
100 bits(54)	2e-20()	72/80(90%)	3/80(3%)	Plus/Plus	

Features:

Query 144139 tttttGAAGTTTTGTGGGACTGCCGGAGTGGTTGATCGCAAGCTAGCGGGATAGATATTT 144198
 Sbjct 58021 TTTTTCGTTGTTGGTGGGACTGCCGGAGTGGTTGATCGCAAGCTAGCGGGATAGATATTT 58079
 Query 144199 TCGACTTTCGGGT-GCGGGA 144217
 Sbjct 58080 TGG-CTTTGTGGTAGCGGGA 58098

Range 20: 57890 to 57950

Score	Expect	Identities	Gaps	Strand	Frame
97.1 bits(52)	3e-19()	59/62(95%)	1/62(1%)	Plus/Plus	

Features:

Query 147176 ttttttttATTCTTTGGTATGCAAGCTGGCGTGTATGCCGGCTCGATCGCTGGATCGACG 147235
 Sbjct 57890 TTTTTTTTA-ACTTTAGTATGCAAGCTGGCGTGTATGCCGGCTCGATCGCTGGATCGACG 57948
 Query 147236 GT 147237
 Sbjct 57949 GT 57950

Range 21: 51620 to 51669

Score	Expect	Identities	Gaps	Strand	Frame
93.5 bits(50)	4e-18()	50/50(100%)	0/50(0%)	Plus/Plus	

Features:

Query 95919 tAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAAAGAGGTTCTG 95968
 Sbjct 51620 TAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAAAGAGGTTCTG 51669

Range 22: 56553 to 56617

Score	Expect	Identities	Gaps	Strand	Frame
93.5 bits(50)	4e-18()	61/66(92%)	2/66(3%)	Plus/Plus	

Features:

Query 147040 GCATGCGGGTTGTTTT-TAGTTTTTGTAGATCGCGGGCTGGAGTGCGGGTGCGCCGGCA 147098
 Sbjct 56553 GCATGCGGTTTTTTTTCTA-ATTTTGTAGATCGCGGGCTGGAGTGCGGGTGCGCCGGCA 56611
 Query 147099 TCGGGG 147104
 Sbjct 56612 TCGGGG 56617

Range 23: 58354 to 58414

Score	Expect	Identities	Gaps	Strand	Frame
91.6 bits(49)	1e-17()	58/62(94%)	1/62(1%)	Plus/Plus	

Features:

Query 147176 ttttttttATTC TTGGTATGCAAGCTGGCGTGTATGCCGGCTCGATCGCTGGATCGACG 147235
 Sbjct 58354 TTTTTTTTA-AGTTTAGTATGCAAGCTGGCGTGTATGCCGGCTCGATCGCTGGATCGACG 58412
 Query 147236 GT 147237
 Sbjct 58413 GT 58414

Range 24: 58985 to 59042

Score	Expect	Identities	Gaps	Strand	Frame
91.6 bits(49)	1e-17()	55/58(95%)	0/58(0%)	Plus/Plus	

Features:

Query 144272 ttttttttAAGATTTGTGAGCGGGAGTGTTAGAGGGATCGATCGCGGGCACGAGTGG 144329
 Sbjct 58985 TTTTTTTATGTTTTGGTGAGCGGGAGTGTTAGAGGGATCGATCGCGGGCACGAGTGG 59042

Range 25: 309 to 362

Score	Expect	Identities	Gaps	Strand	Frame
89.8 bits(48)	5e-17()	52/54(96%)	0/54(0%)	Plus/Plus	

Features:

Query 157628 TCTTGAGTGCTGCCGGATATCTTGATTGATCGCAAGCGAGATCGCTGGCAGTC 157681
 Sbjct 309 TCTGGGGTGCTGCCGGATATCTTGATTGATCGCAAGCGAGATCGCTGGCAGTC 362

Range 26: 7620 to 7668

Score	Expect	Identities	Gaps	Strand	Frame
86.1 bits(46)	7e-16()	48/49(98%)	0/49(0%)	Plus/Plus	

Features:

Query 95919 tAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAAAGAGGTTCT 95967
 Sbjct 7620 TAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAAAGGGTTCT 7668

Range 27: 56513 to 56568

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	52/56(93%)	0/56(0%)	Plus/Plus	

Features:

Query 145392 ttttttttGC TTTTCGGTCGCGGGCTGGCGTGTGCGCCGGCATGCGGttttttt 145447
 Sbjct 56513 TTTTTTTATT TTTTAGGTCGCGGGCTGGCGTGTGCGCCGGCATGCGGTTTTTTT 56568

Range 28: 56276 to 56321

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	45/46(98%)	0/46(0%)	Plus/Plus	
Features:					
Query 157131	TGCCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCACT				157176
Sbjct 56276	TGTCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCACT				56321

Range 29: 56276 to 56321

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	45/46(98%)	0/46(0%)	Plus/Plus	
Features:					
Query 160195	TGCCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCACT				160240
Sbjct 56276	TGTCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCACT				56321

Range 30: 70959 to 71001

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	43/43(100%)	0/43(0%)	Plus/Plus	
Features:					
Query 142254	ttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG				142296
Sbjct 70959	TTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG				71001

Range 31: 59885 to 59947

Score	Expect	Identities	Gaps	Strand	Frame
78.7 bits(42)	1e-13()	57/64(89%)	1/64(1%)	Plus/Plus	
Features:					
Query 146059	TTTTTTCGTTTTGGTGAGCGGGAGTGTAGGCAAGCGTGAGGGCATGCGGGTGCGCCGGCA				146118
Sbjct 59885	TTTTTTCG-TTTTTCGTGAGCGGGAGTGTAGGCAAGCGTGAGGGCATGCGGGTCTGCTGGCA				59943
Query 146119	TGCG	146122			
Sbjct 59944	CGCG	59947			

Range 32: 60853 to 60897

Score	Expect	Identities	Gaps	Strand	Frame
78.7 bits(42)	1e-13()	44/45(98%)	0/45(0%)	Plus/Plus	
Features:					
Query 142908	TTTTGTAGGCGGGATAGATAGCTGGCGAGCGGGTTCGCAAGACTG				142952
Sbjct 60853	TTTCGTAGGCGGGATAGATAGCTGGCGAGCGGGTTCGCAAGACTG				60897

Range 33: 62340 to 62384

Score	Expect	Identities	Gaps	Strand	Frame
78.7 bits(42)	1e-13()	44/45(98%)	0/45(0%)	Plus/Plus	
Features:					
Query 157131	TGCCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC				157175
Sbjct 62340	TGTCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC				62384

Range 34: 62340 to 62384

Score	Expect	Identities	Gaps	Strand	Frame
78.7 bits(42)	1e-13()	44/45(98%)	0/45(0%)	Plus/Plus	
Features:					
Query 160195	TGCCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC				160239
Sbjct 62340	TGTCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC				62384

Range 35: 62516 to 62560

Score	Expect	Identities	Gaps	Strand	Frame
78.7 bits(42)	1e-13()	44/45(98%)	0/45(0%)	Plus/Plus	

Features:

Query 157131 TGCCGGCAGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 157175
 Sbjct 62516 TGTCTGGCAGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 62560

Range 36: 62516 to 62560

Score	Expect	Identities	Gaps	Strand	Frame
78.7 bits(42)	1e-13()	44/45(98%)	0/45(0%)	Plus/Plus	

Features:

Query 160195 TGCCGGCAGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 160239
 Sbjct 62516 TGTCTGGCAGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 62560

Range 37: 62631 to 62672

Score	Expect	Identities	Gaps	Strand	Frame
78.7 bits(42)	1e-13()	42/42(100%)	0/42(0%)	Plus/Plus	

Features:

Query 157134 CGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 157175
 Sbjct 62631 CGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 62672

Range 38: 62631 to 62672

Score	Expect	Identities	Gaps	Strand	Frame
78.7 bits(42)	1e-13()	42/42(100%)	0/42(0%)	Plus/Plus	

Features:

Query 160198 CGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 160239
 Sbjct 62631 CGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 62672

Range 39: 7609 to 7668

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	57/64(89%)	4/64(6%)	Plus/Plus	

Features:

Query 114056 AAAAGAGGTGATAAAAGAGGTGCTGGGCAAAAGAGGTGTTAAAAGAGGTTATAAAAGAGG 114115
 Sbjct 7609 AAAAGAGGTGCTAAAAGAGGT----GGTAAAAGAGGTGTTAAAAGAGGTTATAAAAGGGG 7664

Query 114116 TTCT 114119
 Sbjct 7665 TTCT 7668

Range 40: 53881 to 53921

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	

Features:

Query 139996 GCCGGCAGCGCGGAGTGCCGGCTGGCATGCCGGACCGCGGT 140036
 Sbjct 53881 GCCGGCAGCGCGGAGTGCCGGCTGGCATGCCGGACCGCGGT 53921

Range 41: 78069 to 78121

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	49/53(92%)	0/53(0%)	Plus/Plus	

Features:

Query 156976 tcttttctttctttctttcAGTCAGGAGCGCGGGATCGATAGCCGGCAAGCACT 157028
 Sbjct 78069 TCTTTCTTTCTTTCTTTCTTTCTTCTTCTGAGCGCGGGATCGATAGCCGGCAAGCACT 78121

Range 42: 71677 to 71725

Score	Expect	Identities	Gaps	Strand	Frame
75.0 bits(40)	1e-12()	46/49(94%)	0/49(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTGGGCGCCGG 142304
 Sbjct 71677 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCACGGGAGCCGG 71725

Range 43: 77717 to 77765

Score	Expect	Identities	Gaps	Strand	Frame
75.0 bits(40)	1e-12()	46/49(94%)	0/49(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTGGGCGCCGG 142304
 Sbjct 77717 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCACGGGAGCCGG 77765

Range 44: 332 to 375

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	42/44(95%)	0/44(0%)	Plus/Plus	

Features:

Query 142563 TGATTGATCGCAAGCGAGATCGCTGGCAGTCTTGACGCTGGCA 142606
 Sbjct 332 TGATTGATCGCAAGCGAGATCGCTGGCAGTCTTGCTAGCTGGCA 375

Range 45: 53803 to 53840

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	38/38(100%)	0/38(0%)	Plus/Plus	

Features:

Query 139998 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGCGG 140035
 Sbjct 53803 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGCGG 53840

Range 46: 53881 to 53918

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	38/38(100%)	0/38(0%)	Plus/Plus	

Features:

Query 140224 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140261
 Sbjct 53881 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 53918

Range 47: 53881 to 53918

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	38/38(100%)	0/38(0%)	Plus/Plus	

Features:


Query 140448 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140485
 Sbjct 53881 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 53918

Range 48: 57554 to 57677

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	97/124(78%)	9/124(7%)	Plus/Plus	

Features:

Query 144165 AGTGGTTGATCGCAAGCTAGCGGGATAGATATTTT--CGA-CTTTCGG-GTGCGGGATCG 144220
 Sbjct 57554 AGTGGTTGATCGCAAGCTAGCGGGATAGATATTTTATTTTGGTGAGCGGGAGTG 57613
 Query 144221 CAGGCCGGCACGCT-G-GAGTGCG-G-GGTTGATCGCAAGCTAGCGGGATAGATAtttt- 144275
 Sbjct 57614 TTAGAGGGATCGATCGCGGGCACGAGTGGTTGATCGCAAGCTAGCGGGATAGATATTTTC 57673
 Query 144276 tttt 144279

Sbjct 57674  57677

Range 49: 329 to 365

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	37/37(100%)	0/37(0%)	Plus/Plus	

Features:

Query 141640 TCTTGATTGATCGCAAGCGAGATCGCTGGCAGTCTTG 141676
Sbjct 329 TCTTGATTGATCGCAAGCGAGATCGCTGGCAGTCTTG 365

Range 50: 51619 to 51668

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	49/54(91%)	4/54(7%)	Plus/Plus	

Features:

Query 114066 ATAAAAGAGGTGCTGGGCAAAAGAGGTGTTAAAAGAGGTTATAAAAGAGGTTCT 114119
Sbjct 51619 ATAAAAGA-G-G-T-GGTAAAAGAGGTGTTAAAAGAGGTTATAAAAGAGGTTCT 51668

Range 51: 57637 to 57673

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	37/37(100%)	0/37(0%)	Plus/Plus	

Features:

Query 144164 GAGTGGTTGATCGCAAGCTAGCGGGATAGATATTTTC 144200
Sbjct 57637 GAGTGGTTGATCGCAAGCTAGCGGGATAGATATTTTC 57673

Range 52: 62061 to 62136

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	63/76(83%)	0/76(0%)	Plus/Plus	

Features:

Query 137212 GAGTttttttttttttttttGTCGGATATCTTGCTGTCTTGCGTGCCGGATCGCGGGCTA 137271
Sbjct 62061 GAGTttttttttttGTCttttGTCGGCAGGCTGGCGAGCGGGTGTGCCGGATCGCGGGCTA 62120
Query 137272 GAGTGC AAGATCGACG 137287
Sbjct 62121 GAGTGC AAGATCGACG 62136

Range 53: 53803 to 53838

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 140226 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140261
Sbjct 53803 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 53838

Range 54: 53803 to 53838

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 140450 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140485
Sbjct 53803 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 53838

Range 55: 56769 to 56804

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 145600 GTAGGAGGGCATGAGTGCCGGTTCGACGGAGTGCGG 145635
Sbjct 56769 GTAGGAGGGCATGAGTGCCGGTTCGACGGAGTGCGG 56804

Range 56: 56829 to 56864

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 145364 GCTGGCATGTTGGCATGCATGCAAGCTA+++++ 145399
Sbjct 56829 GCTGGCATGTTGGCATGCATGCAAGCTA+++++ 56864

Range 57: 57389 to 57424

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 135760 GTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 135795
Sbjct 57389 GTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 57424

Range 58: 58045 to 58080

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 144324 GAGTGGTTGATCGCAAGCTAGCGGGATAGATATTTT 144359
Sbjct 58045 GAGTGGTTGATCGCAAGCTAGCGGGATAGATATTTT 58080

Range 59: 59129 to 59211

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	68/83(82%)	4/83(4%)	Plus/Plus	

Features:

Query 144244 GGTGATCGCAAGCTAGCGGGATAGATAttt---ttttAAGATTTTGTGAGCGGGAGT 144299
Sbjct 59129 GGTGATCGCAAGCTAGCGGGATAGATAGTCGGCGTTTTGACTTTTCGTGAGCGGGAGT 59188
Query 144300 GTTAGAGGGATCGATCGCGGGCA 144322
Sbjct 59189 GGTAGACGGATAGAGTGCGGGCA 59211

Range 60: 59501 to 59536

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 145772 GGTAGAGTGATCGCCGGCACGCGAGGGA+++++ 145807
Sbjct 59501 GGTAGAGTGATCGCCGGCACGCGAGGGA+++++ 59536

Range 61: 61503 to 61541

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	38/39(97%)	0/39(0%)	Plus/Plus	

Features:

Query 144210 GTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGGTTG 144248
Sbjct 61503 GTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGGTTG 61541

Range 62: 62101 to 62136

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 135760 GTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 135795
Sbjct 62101 GTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 62136

Range 63: 62561 to 62602

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	40/42(95%)	0/42(0%)	Plus/Plus	

Features:

Query 144328 GGTTGATCGCAAGCTAGCGGGATAGATATTTTCTCTTTGGT 144369
Sbjct 62561 GGTTGATCGCAAGCTAGCGGGATAGATATTTTCTGTTTGGT 62602

Range 64: 71187 to 71222

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 142258 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 142293
Sbjct 71187 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 71222

Range 65: 71379 to 71414

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 142258 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 142293
Sbjct 71379 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 71414

Range 66: 72391 to 72426

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 142258 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 142293
Sbjct 72391 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 72426

Range 67: 77359 to 77394

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 142258 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 142293
Sbjct 77359 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 77394

Range 68: 377 to 414

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	37/38(97%)	0/38(0%)	Plus/Plus	

Features:

Query 160712 GCACGCAAGAGTTCTTGCTCGCGGTCCTGATCGCGGGC 160749
Sbjct 377 GCACGCAAGAGTTCTTGCTCGCGGTCCTGATCGAGGGC 414

Range 69: 57554 to 57588

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	35/35(100%)	0/35(0%)	Plus/Plus	

Features:

Query 144325 AGTGGTTGATCGCAAGCTAGCGGGATAGATATTTT 144359
Sbjct 57554 AGTGGTTGATCGCAAGCTAGCGGGATAGATATTTT 57588

Range 70: 57675 to 57720

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	44/48(92%)	2/48(4%)	Plus/Plus	

Features:

Query 144148 TTTTGTGGGACTGCCGGAGTGGTTGATCGCAAGCTAGCGGGATAGATA 144195
 Sbjct 57675 TTTTGTGGTA--GCGGGAGTGGTTGATCGCAAGCTAGCGGGATAGATA 57720

Range 71: 60809 to 60849

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	39/41(95%)	0/41(0%)	Plus/Plus	

Features:

Query 145764 GCTGGATTGGTAGAGTGATCGCCGGCACGCGAGGGAttttt 145804
 Sbjct 60809 GCTGGCGTGGTAGAGTGATCGCCGGCACGCGAGGGATTTT 60849

Range 72: 71828 to 71862

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	35/35(100%)	0/35(0%)	Plus/Plus	

Features:

Query 138047 TTCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 138081
 Sbjct 71828 TTCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 71862

Range 73: 72124 to 72158

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	35/35(100%)	0/35(0%)	Plus/Plus	

Features:

Query 138131 TGCCTGCGGGATAGCTAGATCGCCGGATTGAGTGC 138165
 Sbjct 72124 TGCCTGCGGGATAGCTAGATCGCCGGATTGAGTGC 72158

Range 74: 77876 to 77910

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	35/35(100%)	0/35(0%)	Plus/Plus	

Features:

Query 138047 TTCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 138081
 Sbjct 77876 TTCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 77910

Range 75: 78220 to 78254

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	35/35(100%)	0/35(0%)	Plus/Plus	

Features:

Query 138131 TGCCTGCGGGATAGCTAGATCGCCGGATTGAGTGC 138165
 Sbjct 78220 TGCCTGCGGGATAGCTAGATCGCCGGATTGAGTGC 78254

Range 76: 38677 to 38713

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	36/37(97%)	0/37(0%)	Plus/Plus	

Features:

Query 63664 CTCGGAAGTTATCTAGGTGGACATGGTTAAAAGAGGT 63700
 Sbjct 38677 CTCGAGGTTATCTAGGTGGACATGGTTAAAAGAGGT 38713

Range 77: 51632 to 51665

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 88007 tAAAAGAGGTGTTAAAAGAGGTATAAAAGAGGT 88040
 Sbjct 51632 TAAAAGAGGTGTTAAAAGAGGTATAAAAGAGGT 51665

Range 78: 57391 to 57424

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 137254 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 137287
 Sbjct 57391 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 57424

Range 79: 57391 to 57424

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 137322 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 137355
 Sbjct 57391 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 57424

Range 80: 57391 to 57424

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 138770 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 138803
 Sbjct 57391 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 57424

Range 81: 57960 to 58020

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	54/63(86%)	4/63(6%)	Plus/Plus	

Features:

Query 147175 AttttttttATCTTTGGTATGC-A-AGCTGGCGTGTATGCCGGCTCGATCGCTGGATCG 147232
 Sbjct 57960 ATtttttttGCTCTTTGGT--GCGATCGCGGGCGGGTATGCCGGCTCGATCGCTGGATCG 58017
 Query 147233 ACG 147235
 Sbjct 58018 ACG 58020

Range 82: 60597 to 60639

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	40/43(93%)	0/43(0%)	Plus/Plus	

Features:

Query 147060 TTTTGTAGATCGCGGGCTGGAGTGCGGGTGCGCCGGCATGCG 147102
 Sbjct 60597 TTTTGTAGATCGCGGGCTGGAGTGCGGGGAGCCGGCACGCG 60639

Range 83: 60813 to 60849

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	36/37(97%)	0/37(0%)	Plus/Plus	

Features:

Query 146824 GCGGGGTAGAGTGATCGCCGGCACGCGAGGGAttttt 146860
 Sbjct 60813 GCGTGGTAGAGTGATCGCCGGCACGCGAGGGAttttt 60849

Range 84: 61501 to 61534

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 141676 GAGTGC GGGATCGCAGGCCGGCACGCTGGAGTGC 141709
 Sbjct 61501 GAGTGC GGGATCGCAGGCCGGCACGCTGGAGTGC 61534

Range 85: 62103 to 62136

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 137322 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 137355
 Sbjct 62103 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 62136

Range 86: 62103 to 62136

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 138770 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 138803
 Sbjct 62103 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 62136

Range 87: 62561 to 62594

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 144168 GGTTGATCGCAAGCTAGCGGGATAGATATTTTCG 144201
 Sbjct 62561 GGTTGATCGCAAGCTAGCGGGATAGATATTTTCG 62594

Range 88: 70667 to 70709

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	41/44(93%)	2/44(4%)	Plus/Plus	

Features:

Query 158486 CTGCCGG-ATATCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 158528
 Sbjct 70667 CTGCAGGCAT-TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 70709

Range 89: 70667 to 70709

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	41/44(93%)	2/44(4%)	Plus/Plus	

Features:

Query 159434 CTGCCGG-ATATCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 159476
 Sbjct 70667 CTGCAGGCAT-TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 70709

Range 90: 70676 to 70709

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 157095 TTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 157128
 Sbjct 70676 TTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 70709

Range 91: 71960 to 71993

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 157095 TTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 157128
 Sbjct 71960 TTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 71993

Range 92: 72213 to 72246

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 138132 GCGTGCGGGATAGCTAGATCGCCGGATTGAGTGC 138165
 Sbjct 72213 GCGTGCGGGATAGCTAGATCGCCGGATTGAGTGC 72246

Range 93: 77003 to 77045

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	41/44(93%)	2/44(4%)	Plus/Plus	

Features:

Query 158486 CTGCCGG-ATATCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 158528
 Sbjct 77003 CTGCAGGCAT-TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 77045

Range 94: 77003 to 77045

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	41/44(93%)	2/44(4%)	Plus/Plus	

Features:

Query 159434 CTGCCGG-ATATCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 159476
 Sbjct 77003 CTGCAGGCAT-TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 77045

Range 95: 77012 to 77045

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 157095 TTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 157128
 Sbjct 77012 TTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 77045

Range 96: 78088 to 78121

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 157095 TTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 157128
 Sbjct 78088 TTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 78121

Range 97: 78309 to 78342

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 138132 GCGTGCGGGATAGCTAGATCGCCGGATTGAGTGC 138165
 Sbjct 78309 GCGTGCGGGATAGCTAGATCGCCGGATTGAGTGC 78342

Range 98: 57993 to 58025

Score	Expect	Identities	Gaps	Strand	Frame
-------	--------	------------	------	--------	-------

62.1 bits(33) 1e-08() 33/33(100%) 0/33(0%) Plus/Plus

Features:

Query 142372 GTATGCCGGCTCGATCGCTGGATCGACGTTTTT 142404
Sbjct 57993 GTATGCCGGCTCGATCGCTGGATCGACGTTTTT 58025

Range 99: 59672 to 59717

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	42/46(91%)	1/46(2%)	Plus/Plus	

Features:

Query 144904 TTTTTTTTT-GGGTTTGGTGAGCGGGAGTGTGCGCCGGCATGCGGG 144948
Sbjct 59672 TTTTTTTTTACCCTTTGGTGAGCGGGAGTGTGCGCCGGCATGCGGG 59717

Range 100: 71493 to 71525

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 144600 GAGTGGGCGCGGGATCGATAGCCGGCAAGCACT 144632
Sbjct 71493 GAGTGGGCGCGGGATCGATAGCCGGCAAGCACT 71525

Range 101: 71828 to 71860

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 138667 TTCTTGATTGATCGCAAGCTAGCGGGATAGATA 138699
Sbjct 71828 TTCTTGATTGATCGCAAGCTAGCGGGATAGATA 71860

Range 102: 71949 to 71993

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	41/45(91%)	0/45(0%)	Plus/Plus	

Features:

Query 156984 TCTTTCTTTCTTTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 157028
Sbjct 71949 TCTTTCTTTCTTTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 71993

Range 103: 71961 to 71993

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 158496 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 158528
Sbjct 71961 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 71993

Range 104: 71961 to 71993

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 159444 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 159476
Sbjct 71961 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 71993

Range 105: 77493 to 77525

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 144600 GAGTGGGCGCGGGATCGATAGCCGGCAAGCACt 144632
 Sbjct 77493 GAGTGGGCGCGGGATCGATAGCCGGCAAGCACt 77525

Range 106: 77876 to 77908

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 138667 TTCTTGATTGATCGCAAGCTAGCGGGATAGATA 138699
 Sbjct 77876 TTCTTGATTGATCGCAAGCTAGCGGGATAGATA 77908

Range 107: 78089 to 78121

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 158496 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 158528
 Sbjct 78089 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 78121

Range 108: 78089 to 78121

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 159444 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 159476
 Sbjct 78089 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 78121

Range 109: 14681 to 14712

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 99668 CTAGGTGGAAC TGGTCTAGGTGGAAATGGTT 99699
 Sbjct 14681 CTAGGTGGAAC TGGTCTAGGTGGAAATGGTT 14712

Range 110: 14681 to 14712

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 99860 CTAGGTGGAAC TGGTCTAGGTGGAAATGGTT 99891
 Sbjct 14681 CTAGGTGGAAC TGGTCTAGGTGGAAATGGTT 14712

Range 111: 28764 to 28799

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	35/36(97%)	1/36(2%)	Plus/Plus	

Features:

Query 87931 AGGGGCTCAACATCTTAGAAGTGT TTTT T GAG-GTT 87965
 Sbjct 28764 AGGGGCTCAACATCTTAGAAGTGT TTTT T GAGTGT 28799

Range 112: 56729 to 56760

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 145644 GGGAGCCGGCGTGC GGGTTAGCCTGCTGGATC 145675
 Sbjct 56729 GGGAGCCGGCGTGC GGGTTAGCCTGCTGGATC 56760

Range 113: 57689 to 57720

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144324 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 144355
 Sbjct 57689 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 57720

Range 114: 57832 to 57870

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	37/39(95%)	2/39(5%)	Plus/Plus	

Features:

Query 142761 tttt-ttt-GTGAGCGGGAGTGTATGCTGGATAGAGTGT 142797
 Sbjct 57832 TTTTCCTTCGTGAGCGGGAGTGTATGCTGGATAGAGTGT 57870

Range 115: 58049 to 58080

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144244 GGTGATCGCAAGCTAGCGGGATAGATAAtttt 144275
 Sbjct 58049 GGTGATCGCAAGCTAGCGGGATAGATAAtttt 58080

Range 116: 58292 to 58367

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	63/77(82%)	6/77(7%)	Plus/Plus	

Features:

Query 146799 TGTTAGCAAGCAGGATTGCTGGATCGCGGGTAGAGTGATCGCC-G--G-CACGCGAG-G 146853
 Sbjct 58292 TGTTAGCAAGCAGGATTGCTGGATCGCGGGTGGGACTGCTAGCCTGCTGGCAGCGAGCG 58351
 Query 146854 GAtttttttttCACGTTT 146870
 Sbjct 58352 GTTTTTTTTTTAA-GTTT 58367

Range 117: 58292 to 58361

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	58/70(83%)	4/70(5%)	Plus/Plus	

Features:

Query 146727 TGTTAGCAAGCAGGATTGCTGGATCGCGGGTAGAGTGATCGCC----GGCACGCGAGTT 146782
 Sbjct 58292 TGTTAGCAAGCAGGATTGCTGGATCGCGGGTGGGACTGCTAGCCTGCTGGCAGCGAGCG 58351
 Query 146783 Gtttttttttt 146792
 Sbjct 58352 GTTTTTTTTTT 58361

Range 118: 59125 to 59156

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144164 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 144195
 Sbjct 59125 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 59156

Range 119: 59280 to 59314

Score	Expect	Identities	Gaps	Strand	Frame
-------	--------	------------	------	--------	-------

60.2 bits(32) 4e-08() 34/35(97%) 0/35(0%) Plus/Plus

Features:

Query 141675 TGAGTGC GGGGATCGCAGGCCGGCACGCTGGAGTGC 141709
Sbjct 59280 TGGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGC 59314

Range 120: 59317 to 59348

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144168 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 144199
Sbjct 59317 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 59348

Range 121: 59317 to 59348

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144328 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 144359
Sbjct 59317 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 59348

Range 122: 59821 to 59858

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	36/38(95%)	0/38(0%)	Plus/Plus	

Features:

Query 147052 TTTTGTAGTTTGTAGATCGCGGGCTGGAGTGC GGGT 147089
Sbjct 59821 TTTTGACTTTTGTAGATCGCGGGCTGGAGTGC GGGT 59858

Range 123: 60940 to 60994

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	48/55(87%)	4/55(7%)	Plus/Plus	

Features:

Query 142883 GGGGAGCCGGCACGCGTGCAAGAGATTTT---GTAG-GCGGGATAGATAGCTGGC 142933
Sbjct 60940 GGGGAGCCGGCACGCGTGCAAGAGATTTTATCGTTGTGCCGGATAGAGAGCTGGC 60994

Range 124: 62561 to 62592

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144244 GGTTGATCGCAAGCTAGCGGGATAGATAtttt 144275
Sbjct 62561 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 62592

Range 125: 6005 to 6044

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	37/40(93%)	0/40(0%)	Plus/Plus	

Features:

Query 88008 AAAAGAGGTGTTAAAAGAGGTTATAAAAGAGGTGTTAAAA 88047
Sbjct 6005 AAAAGAGGTGTTAAAAGAGGTTATAAAACAGGGGCTAAAA 6044

Range 126: 6005 to 6044

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	37/40(93%)	0/40(0%)	Plus/Plus	

Features:

Query 114084 AAAAGAGGTGTTAAAAGAGGTTATAAAAGAGGTTCTAAAA 114123
 Sbjct 6005 AAAAGAGGTGTTAAAAGAGGTTATAAAACAGGGGCTAAAA 6044

Range 127: 7632 to 7665

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	33/34(97%)	0/34(0%)	Plus/Plus	

Features:

Query 88007 TAAAAGAGGTGTTAAAAGAGGTTATAAAAGAGGT 88040
 Sbjct 7632 TAAAAGAGGTGTTAAAAGAGGTTATAAAAGGGGT 7665

Range 128: 29484 to 29514

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	31/31(100%)	0/31(0%)	Plus/Plus	

Features:

Query 43671 AGGGGCTCAACATGGTAGGGCCTCAGAGGTT 43701
 Sbjct 29484 AGGGGCTCAACATGGTAGGGCCTCAGAGGTT 29514

Range 129: 34460 to 34490

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	31/31(100%)	0/31(0%)	Plus/Plus	

Features:

Query 43671 AGGGGCTCAACATGGTAGGGCCTCAGAGGTT 43701
 Sbjct 34460 AGGGGCTCAACATGGTAGGGCCTCAGAGGTT 34490

Range 130: 43087 to 43137

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	45/51(88%)	4/51(7%)	Plus/Plus	

Features:

Query 79626 ATCTCAGTAGTTCTCTCAGTGGTGTGGTAGG---GC-GGGACTCAGAAGT 79672
 Sbjct 43087 ATCTCAGTAGTTCTCTCAGTGGTGTGGTATATAAGCAGGGACTCAGAAGT 43137

Range 131: 58048 to 58081

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	33/34(97%)	0/34(0%)	Plus/Plus	

Features:

Query 138671 TGATTGATCGCAAGCTAGCGGGATAGATATTTTG 138704
 Sbjct 58048 TGGTTGATCGCAAGCTAGCGGGATAGATATTTTG 58081

Range 132: 70676 to 70709

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	33/34(97%)	0/34(0%)	Plus/Plus	

Features:

Query 152475 TTTTGTAGCGCGGGATCGATAGCCGGCAAGCACT 152508
 Sbjct 70676 TTCTTGTAGCGCGGGATCGATAGCCGGCAAGCACT 70709

Range 133: 71959 to 71993

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	34/35(97%)	1/35(2%)	Plus/Plus	

Features:

Query 152475 TTT-TTGAGCGCGGGATCGATAGCCGGCAAGCACT 152508
Sbjct 71959 TTTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 71993

Range 134: 77012 to 77045

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	33/34(97%)	0/34(0%)	Plus/Plus	

Features:

Query 152475 TTTTGTGAGCGCGGGATCGATAGCCGGCAAGCACT 152508
Sbjct 77012 TTTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 77045

Range 135: 78087 to 78121

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	34/35(97%)	1/35(2%)	Plus/Plus	

Features:

Query 152475 TTT-TTGAGCGCGGGATCGATAGCCGGCAAGCACT 152508
Sbjct 78087 TTTCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 78121

Range 136: 33996 to 34025

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 61875 tGGTAGGGCGGGACTCAGAAGTTATTATAA 61904
Sbjct 33996 TGGTAGGGCGGGACTCAGAAGTTATTATAA 34025

Range 137: 36603 to 36632

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 44854 TTTAAAAGAGGTTATAAAAAGAGGTTCTACCT 44883
Sbjct 36603 TTTAAAAGAGGTTATAAAAAGAGGTTCTACCT 36632

Range 138: 45597 to 45647

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	46/53(87%)	3/53(5%)	Plus/Plus	

Features:

Query 127700 GAGGTTAAAAAGAGGTTATAAAAAGAGGTTCTACCTTGTCAGCa-aaaaaaa 127751
Sbjct 45597 GAGGTTCTAAAAGAGGTTATAAAAAGAGGTTCTACCT-G-CCAAAAGAAAAAA 45647

Range 139: 56951 to 56980

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 137682 TGGCGTGCCTGATCGCGGGATAGATATTTT 137711
Sbjct 56951 TGGCGTGCCTGATCGCGGGATAGATATTTT 56980

Range 140: 57076 to 57105

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 147059 TTTTGTAGATCGCGGGCTGGAGTGCGGG 147088
Sbjct 57076 TTTTGTAGATCGCGGGCTGGAGTGCGGG 57105

Range 141: 57556 to 57588

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	32/33(97%)	0/33(0%)	Plus/Plus	

Features:

Query 138671 TGATTGATCGCAAGCTAGCGGGATAGATATTTT 138703
 Sbjct 57556 TGGTTGATCGCAAGCTAGCGGGATAGATATTTT 57588

Range 142: 57640 to 57672

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	32/33(97%)	0/33(0%)	Plus/Plus	

Features:

Query 138671 TGATTGATCGCAAGCTAGCGGGATAGATATTTT 138703
 Sbjct 57640 TGGTTGATCGCAAGCTAGCGGGATAGATATTTT 57672

Range 143: 57792 to 57821

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 142911 TGTAGGCGGGATAGATAGCTGGCGAGCGGG 142940
 Sbjct 57792 TGTAGGCGGGATAGATAGCTGGCGAGCGGG 57821

Range 144: 59319 to 59348

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 138674 TTGATCGCAAGCTAGCGGGATAGATATTTT 138703
 Sbjct 59319 TTGATCGCAAGCTAGCGGGATAGATATTTT 59348

Range 145: 60613 to 60648

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	34/36(94%)	0/36(0%)	Plus/Plus	

Features:

Query 142872 GCCGGAGCGCGGGGAGCCGGGCACGCGTGCAAGAGA 142907
 Sbjct 60613 GCTGGAGTGCGGGGAGCCGGGCACGCGTGCAAGAGA 60648

Range 146: 60808 to 60843

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	34/36(94%)	0/36(0%)	Plus/Plus	

Features:

Query 145819 AGCGGGAGTGGTAGAGTGATCGCCGGGCACGCGAGGG 145854
 Sbjct 60808 AGCTGGCGTGGTAGAGTGATCGCCGGGCACGCGAGGG 60843

Range 147: 60808 to 60843

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	34/36(94%)	0/36(0%)	Plus/Plus	

Features:

Query 145891 AGCGGGAGTGGTAGAGTGATCGCCGGGCACGCGAGGG 145926
 Sbjct 60808 AGCTGGCGTGGTAGAGTGATCGCCGGGCACGCGAGGG 60843

Range 148: 60911 to 60940

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 145190 TTGTGTGCGGGATAGAGTGATCGCAAGACG 145219
 Sbjct 60911 TTGTGTGCGGGATAGAGTGATCGCAAGACG 60940

Range 149: 62563 to 62592

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 138674 TTGATCGCAAGCTAGCGGGATAGATATTTT 138703
 Sbjct 62563 TTGATCGCAAGCTAGCGGGATAGATATTTT 62592

Range 150: 71013 to 71048

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	34/36(94%)	0/36(0%)	Plus/Plus	

Features:

Query 138820 GATTGCGGGATCGCTGGAGTGCCGGCAAGCACTCTT 138855
 Sbjct 71013 GATTGCAAGATCGCTGGAGTGCCGGCAAGCACTCTT 71048

Range 151: 6005 to 6036

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	31/32(97%)	0/32(0%)	Plus/Plus	

Features:

Query 95932 AAAAGAGGTGTTAAAAGAGGTTATAAAAGAGG 95963
 Sbjct 6005 AAAAGAGGTGTTAAAAGAGGTTATAAACAGG 6036

Range 152: 7625 to 7660

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	34/36(94%)	2/36(5%)	Plus/Plus	

Features:

Query 60122 GAGGT-G-AAAAGAGGTGTTAAAAGAGGTTATAAAA 60155
 Sbjct 7625 GAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAA 7660

Range 153: 38312 to 38340

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 115927 AGGGGCTCAACATCTTAACATTGCTGGTA 115955
 Sbjct 38312 AGGGGCTCAACATCTTAACATTGCTGGTA 38340

Range 154: 45604 to 45632

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 44855 TAAAAGAGGTTATAAAAGAGGTTCTACCT 44883
 Sbjct 45604 TAAAAGAGGTTATAAAAGAGGTTCTACCT 45632

Range 155: 51625 to 51660

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	34/36(94%)	2/36(5%)	Plus/Plus	

Features:

Query 60122 GAGGT-G-AAAAGAGGTGTTAAAAGAGGTTATAAAA 60155
 Sbjct 51625 GAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAA 51660

Range 156: 57920 to 57948

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 142371 TGTATGCCGGCTCGATCGCTGGATCGACG 142399
 Sbjct 57920 TGTATGCCGGCTCGATCGCTGGATCGACG 57948

Range 157: 58384 to 58412

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 142371 TGTATGCCGGCTCGATCGCTGGATCGACG 142399
 Sbjct 58384 TGTATGCCGGCTCGATCGCTGGATCGACG 58412

Range 158: 70681 to 70709

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 157000 GAGCGCGGGATCGATAGCCGGCAAGCACT 157028
 Sbjct 70681 GAGCGCGGGATCGATAGCCGGCAAGCACT 70709

Range 159: 70801 to 70829

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 155352 TCTTGATAGAGTGCTGGCACGCGTGCTGG 155380
 Sbjct 70801 TCTTGATAGAGTGCTGGCACGCGTGCTGG 70829

Range 160: 71015 to 71057

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	39/43(91%)	4/43(9%)	Plus/Plus	

Features:

Query 150798 TTGCAAGAT---T-GAGTGCCGGCAAGCACTCTTTCAGTCAGT 150836
 Sbjct 71015 TTGCAAGATCGCTGGAGTGCCGGCAAGCACTCTTTCAGTCAGT 71057

Range 161: 71015 to 71057

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	39/43(91%)	4/43(9%)	Plus/Plus	

Features:

Query 150910 TTGCAAGAT---T-GAGTGCCGGCAAGCACTCTTTCAGTCAGT 150948
 Sbjct 71015 TTGCAAGATCGCTGGAGTGCCGGCAAGCACTCTTTCAGTCAGT 71057

Range 162: 72584 to 72612

Score	Expect	Identities	Gaps	Strand	Frame
-------	--------	------------	------	--------	-------

54.7 bits(29) 2e-06() 29/29(100%) 0/29(0%) Plus/Plus

Features:

Query 160051 TGATCGCGGGATGGAGGGCGGGATAGAGT 160079
Sbjct 72584 TGATCGCGGGATGGAGGGCGGGATAGAGT 72612

Range 163: 72724 to 72752

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 160051 TGATCGCGGGATGGAGGGCGGGATAGAGT 160079
Sbjct 72724 TGATCGCGGGATGGAGGGCGGGATAGAGT 72752

Range 164: 77017 to 77045

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 157000 GAGCGCGGGATCGATAGCCGGCAAGCACT 157028
Sbjct 77017 GAGCGCGGGATCGATAGCCGGCAAGCACT 77045

Range 165: 77134 to 77165

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	31/32(97%)	0/32(0%)	Plus/Plus	

Features:

Query 155349 CGTTCTTGATAGAGTGCTGGCACGCGTGCTGG 155380
Sbjct 77134 CGATCTTGATAGAGTGCTGGCACGCGTGCTGG 77165

Range 166: 6005 to 6032

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 60128 AAAAGAGGTGTTAAAAGAGGTTATAAAA 60155
Sbjct 6005 AAAAGAGGTGTTAAAAGAGGTTATAAAA 6032

Range 167: 36605 to 36632

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 127708 AAAAGAGGTTATAAAAGAGGTTCTACCT 127735
Sbjct 36605 AAAAGAGGTTATAAAAGAGGTTCTACCT 36632

Range 168: 56645 to 56672

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 145308 GCTGGCATGTGCGATCGCGGGCGGTTTT 145335
Sbjct 56645 GCTGGCATGTGCGATCGCGGGCGGTTTT 56672

Range 169: 57085 to 57132

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	42/48(88%)	4/48(8%)	Plus/Plus	

Features:

Query 144312 GATCGCGGGCACGAGT----GGTTGATCGCAAGCTAGCGGGATAGATA 144355
 Sbjct 57085 GATCGCGGGCTGGAGTGCGGGGTGATCGCAAGCTAGCGGGATAGATA 57132

Range 170: 57105 to 57132

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 144168 GGTGATCGCAAGCTAGCGGGATAGATA 144195
 Sbjct 57105 GGTGATCGCAAGCTAGCGGGATAGATA 57132

Range 171: 57693 to 57720

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 144244 GGTGATCGCAAGCTAGCGGGATAGATA 144271
 Sbjct 57693 GGTGATCGCAAGCTAGCGGGATAGATA 57720

Range 172: 58785 to 58812

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 145560 GCGGGTCTGCTGGCACGCGTGCATGCGG 145587
 Sbjct 58785 GCGGGTCTGCTGGCACGCGTGCATGCGG 58812

Range 173: 59929 to 59956

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 145560 GCGGGTCTGCTGGCACGCGTGCATGCGG 145587
 Sbjct 59929 GCGGGTCTGCTGGCACGCGTGCATGCGG 59956

Range 174: 60347 to 60384

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	35/38(92%)	2/38(5%)	Plus/Plus	

Features:

Query 142876 GAGCGCG-G-GGGAGCCGGCACGCGTGCAAGAGATTTT 142911
 Sbjct 60347 GAGCGGGAGTGGGAGCCGGCACGCGTGCAAGAGATTTT 60384

Range 175: 61341 to 61368

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 136872 GCTAGCAAGCACGAGTGATCGCAAGCAT 136899
 Sbjct 61341 GCTAGCAAGCACGAGTGATCGCAAGCAT 61368

Range 176: 62257 to 62284

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 144168 GGTTCGATCGCAAGCTAGCGGGATAGATA 144195
 Sbjct 62257 GGTTCGATCGCAAGCTAGCGGGATAGATA 62284

Range 177: 62257 to 62284

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 144244 GGTTCGATCGCAAGCTAGCGGGATAGATA 144271
 Sbjct 62257 GGTTCGATCGCAAGCTAGCGGGATAGATA 62284

Range 178: 62257 to 62284

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 144328 GGTTCGATCGCAAGCTAGCGGGATAGATA 144355
 Sbjct 62257 GGTTCGATCGCAAGCTAGCGGGATAGATA 62284

Range 179: 73013 to 73040

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 160052 GATCGCGGGATGGAGGGCGGGATAGAGT 160079
 Sbjct 73013 GATCGCGGGATGGAGGGCGGGATAGAGT 73040

|cl|/home/jayp/bigtest/groovemonitor.exe

Sequence ID: |cl|Query_82799 Length: 124064 Number of Matches: 210

Range 1: 76528 to 76691

Score	Expect	Identities	Gaps	Strand	Frame
226 bits(122)	4e-58()	151/165(92%)	2/165(1%)	Plus/Plus	

Features:

Query 145943 AttttttttCCAGTTTCGGGGGCACGCCTGCTGGCACGCGTGCATGCGGGCGTGTGGGAC 146002
 Sbjct 76528 AttttttttGCACTTTAGGGGGCACGCCTGCTGGCACGCGTGCATGCGGGCGTGTGGGAC 76587
 Query 146003 TGCTAGCGGGATTGAGTGCCGGCAAGCACGTGCGCCGGCATGAGTGCGGGATCttttttt 146062
 Sbjct 76588 TGCTAGCGGGATTGAGTGCCGGCAAGCACGTGCGCCGGCATGAGTGCGGGATCttttttt 76647
 Query 146063 t-tCGTTTTGGTGAGCGGGAGTGTAGGCAAGCGTGAGGGCATGCG 146106
 Sbjct 76648 TGTCCTTTAGGT-AGCGGGAGTGGGGGCACGCCTGCTGGCACGCG 76691

Range 2: 77116 to 77252

Score	Expect	Identities	Gaps	Strand	Frame
198 bits(107)	8e-50()	129/139(93%)	3/139(2%)	Plus/Plus	

Features:

Query 145275 tttttCAAATTCGGGCGCCGGATCGAGTGAGGGCTGGCATGTGCGATCGCGGGCGGTTT 145334
 Sbjct 77116 TTTTCTTATTTAGGGCGCCGGATCGAGTGAGGGCTGGCATGTGCGATCGCGGGCGGTTT 77175
 Query 145335 TCACATTCGGGCGCCGGATCGAGTGAGGGCTGGCATGTTGGCATGCATGCAAGCTAttt 145394
 Sbjct 77176 TCTTGTTTAGGGCGCCGGATCGAGTGAGGGCTGGCATGTTGGCATGCATGCAAGCTATTT 77235
 Query 145395 ttttttGCT-TTTCGGTCG 145412
 Sbjct 77236 TTTTTT-CTATTTTCG-TCG 77252

Range 3: 76669 to 76769

Score	Expect	Identities	Gaps	Strand	Frame
187 bits(101)	2e-46()	101/101(100%)	0/101(0%)	Plus/Plus	

Features:

Query 145960 GGGGGCACGCCTGCTGGCACGCGTGATGCGGGCGTGTGGGACTGCTAGCGGGATTGAGT 146019
 Sbjct 76669 GGGGGCACGCCTGCTGGCACGCGTGATGCGGGCGTGTGGGACTGCTAGCGGGATTGAGT 76728

Query 146020 GCCGGCAAGCACGTGCGCCGGCATGAGTGCGGGATCttttt 146060
 Sbjct 76729 GCCGGCAAGCACGTGCGCCGGCATGAGTGCGGGATCttttt 76769

Range 4: 76453 to 76536

Score	Expect	Identities	Gaps	Strand	Frame
145 bits(78)	1e-33()	82/84(98%)	0/84(0%)	Plus/Plus	

Features:

Query 144196 TTTTCGACTTTTCGGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGGGTTGATCGCAA 144255
 Sbjct 76453 TTTTGGACTTTAGGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGGGTTGATCGCAA 76512

Query 144256 GCTAGCGGGATAGATAtttttttt 144279
 Sbjct 76513 GCTAGCGGGATAGATAtttttttt 76536

Range 5: 67189 to 67266

Score	Expect	Identities	Gaps	Strand	Frame
139 bits(75)	5e-32()	77/78(99%)	0/78(0%)	Plus/Plus	

Features:

Query 147116 TTTGGTGAGCGGGAGTGGTTGATCGCAAGCTAGTTGGCGTGCCTGATCGCGGGATAGATA 147175
 Sbjct 67189 TTTGGTGAGCGGGAGTGGTTGATCGCAAGCTAGTTGGCGTGCCTGATCGCGGGATAGATA 67248

Query 147176 ttttttttATTCtttGGT 147193
 Sbjct 67249 TTTTCTTCTTTGGT 67266

Range 6: 65759 to 65880

Score	Expect	Identities	Gaps	Strand	Frame
137 bits(74)	2e-31()	108/124(87%)	4/124(3%)	Plus/Plus	

Features:

Query 144238 GTGCGGGGTTGATCGCAAGCTAGCGGGATAGATAtttttttAAGAT-TTT-GTGAGCGG 144295
 Sbjct 65759 GTGCGGGCTAGATCGCGGGCAGGCGGGCACGA-GTTTTTTT-TGTTCTTTGGTGAGCGG 65816

Query 144296 GAGTGTTAGAGGGATCGATCGCGGGCACGAGTGGTTGATCGCAAGCTAGCGGGATAGATA 144355
 Sbjct 65817 GAGTGTTAGAGGGATCGATCGCGGGCACGAGTGGTTGATCGCAAGCTAGCGGGATAGATA 65876

Query 144356 TTTT 144359
 Sbjct 65877 TTTT 65880

Range 7: 66913 to 66996

Score	Expect	Identities	Gaps	Strand	Frame
134 bits(72)	2e-30()	80/84(95%)	0/84(0%)	Plus/Plus	

Features:

Query 144272 ttttttttAAGATTTTGTGAGCGGGAGTGTAGAGGGATCGATCGCGGGCACGAGTGGT 144331
 Sbjct 66913 TTTTTTTTGTATTTGGTGAGCGGGAGTGTAGAGGGATCGATCGCGGGCACGAGTGGT 66972

Query 144332 GATCGCAAGCTAGCGGGATAGATA 144355
 Sbjct 66973 GATCGCAAGCTAGCGGGATAGATA 66996

Range 8: 30013 to 30104

Score	Expect	Identities	Gaps	Strand	Frame
132 bits(71)	9e-30()	85/92(92%)	0/92(0%)	Plus/Plus	

Features:

Query 56152 CTCAGTGGACATCTCATTCTCTCATTGCTCGGTAGACTTGGTTGGTGACCTAAGGTCGA 56211
 Sbjct 30013 CTCAGTGGACATCTCATTCTCTCATTGCTCGGTAGAGATGGTTGGTGACCTATTTTSTA 30072

Query 56212 ttttttttGGCGGGCGATTACTCAGCGGACCT 56243
 Sbjct 30073 TTTTTTTTGGCGGGCGATTACTCAGCGGACCT 30104

Range 9: 76389 to 76467

Score	Expect	Identities	Gaps	Strand	Frame
130 bits(70)	3e-29()	76/79(96%)	0/79(0%)	Plus/Plus	
Features:					
Query 144972	TTTGGTGAGCGGGAGTGGTAGAGTGCTGGATCGAGTGAGGGATTGTCGGCACGCGCGCAA	145031			
Sbjct 76389	TTTGGTGAGCGGGAGTGGTAGAGTGCTGGATCGAGTGAGGGATTGTCGGCACGCGCGCAA	76448			
Query 145032	GTTGTTTTAGAAATTCGGG	145050			
Sbjct 76449	GTTGTTTTGGACTTTAGGG	76467			

Range 10: 67317 to 67392

Score	Expect	Identities	Gaps	Strand	Frame
124 bits(67)	1e-27()	73/76(96%)	0/76(0%)	Plus/Plus	
Features:					
Query 144068	GCATGCGGGTTGTTTTTTTTGTCAGTGGGGTCGTACGTGGGTATTATATATCTCACGCGT	144127			
Sbjct 67317	GCATGCGGGGGAATTTTTTTGTCAGTGGGGTCGTACGTGGGTATTATATATCTCACGCGT	67376			
Query 144128	GCATGCATTTTTTTTT	144143			
Sbjct 67377	GCATGCATTTTTTTTT	67392			

Range 11: 68377 to 68488

Score	Expect	Identities	Gaps	Strand	Frame
124 bits(67)	1e-27()	107/124(86%)	12/124(9%)	Plus/Plus	
Features:					
Query 142884	GGGAGCCGGCACGCGTGCAAGAGATTTTGTAGGCGGGATAGATAGCTGGCGAGCGGGTTC	142943			
Sbjct 68377	GGGAGCCGGCACGCGTGCAAGAGA-----GTAGGCGGGATAGATAGCTGGCGAGCGGG---	68429			
Query 142944	GCAAGACTGTTGTTTTGAGGGATAGCGGGATCTATATATCTCACGCGTGCATGCATTTTT	143003			
Sbjct 68430	G---GA-T-TTTTTTTGGGGGGTAGTGGGGTCTATATATCTCACGCGTGCATGCATTTTT	68484			
Query 143004	TTTT	143007			
Sbjct 68485	TTTT	68488			

Range 12: 70775 to 70844

Score	Expect	Identities	Gaps	Strand	Frame
119 bits(64)	7e-26()	68/70(97%)	0/70(0%)	Plus/Plus	
Features:					
Query 145994	GTGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCACGTGCGCCGGCATGAGTGCGGGA	146053			
Sbjct 70775	GTGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCACGTGCGCCGGCATGAGTGCGGGA	70834			
Query 146054	TCtttttttt	146063			
Sbjct 70835	TCGTTTGTTT	70844			

Range 13: 70927 to 70996

Score	Expect	Identities	Gaps	Strand	Frame
119 bits(64)	7e-26()	68/70(97%)	0/70(0%)	Plus/Plus	
Features:					
Query 145994	GTGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCACGTGCGCCGGCATGAGTGCGGGA	146053			
Sbjct 70927	GTGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCACGTGCGCCGGCATGAGTGCGGGA	70986			
Query 146054	TCtttttttt	146063			
Sbjct 70987	TCGTTTGTTT	70996			

Range 14: 66477 to 66536

Score	Expect	Identities	Gaps	Strand	Frame
111 bits(60)	1e-23()	60/60(100%)	0/60(0%)	Plus/Plus	

Features:

Query 144644 TTTGGTGAGCGGGAGTGTATGCTGGATAGAGTGTGGGATCGATCGCAAGATC+++++ 144703
 Sbjct 66477 TTTGGTGAGCGGGAGTGTATGCTGGATAGAGTGTGGGATCGATCGCAAGATC+++++ 66536

Range 15: 76941 to 77008

Score	Expect	Identities	Gaps	Strand	Frame
110 bits(59)	4e-23()	65/68(96%)	0/68(0%)	Plus/Plus	

Features:

Query 147180 ttttATTCTTTGGTATGCAAGCTGGCGTGTATGCCGGCTCGATCGCTGGATCGACGGTTG 147239
 Sbjct 76941 TTTTGGTCTTTTCGTATGCAAGCTGGCGTGTATGCCGGCTCGATCGCTGGATCGACGGTTG 77000
 Query 147240 ++++++ 147247
 Sbjct 77001 ++++++ 77008

Range 16: 69767 to 69836

Score	Expect	Identities	Gaps	Strand	Frame
106 bits(57)	5e-22()	69/74(93%)	4/74(5%)	Plus/Plus	

Features:

Query 157102 GCGCGGGATCGATAGCCGGCAAGCACTCTTGCCGGCACGCGCAAGATCGCAGGCTGGA 157161
 Sbjct 69767 GCGCGGGATCGATAGCCGGCAAGCACG-T---CGGCACGCGCAAGATCGCAGGCTGGA 69822
 Query 157162 GTGCCGGCAAGCAC 157175
 Sbjct 69823 GTGCCGGCAAGCAC 69836

Range 17: 65973 to 66040

Score	Expect	Identities	Gaps	Strand	Frame
104 bits(56)	2e-21()	65/69(94%)	2/69(2%)	Plus/Plus	

Features:

Query 144636 tttttGCCTTT-GGTGAGCGGGAGTGTATGCTGGATAGAGTGTGGGATCGATCGCAAGAT 144694
 Sbjct 65973 TTTTTCCTTTTAGGT-AGCGGGAGTGTATGCTGGATAGAGTGTGGGATCGATCGCAAGAT 66031
 Query 144695 Cttttttttt 144703
 Sbjct 66032 CTTTTTTTT 66040

Range 18: 32770 to 32855

Score	Expect	Identities	Gaps	Strand	Frame
100 bits(54)	2e-20()	76/86(88%)	3/86(3%)	Plus/Plus	

Features:

Query 53253 GTTAAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTACCTACTCT 53312
 Sbjct 32770 GTTAAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTGCGTGCCTGCGGT 32829
 Query 53313 CGttttttttt-CTT-AATGTT-GTT 53335
 Sbjct 32830 CGAGTTTTTTTGCCTGAATGTTTCGTT 32855

Range 19: 66541 to 66592

Score	Expect	Identities	Gaps	Strand	Frame
97.1 bits(52)	3e-19()	52/52(100%)	0/52(0%)	Plus/Plus	

Features:

Query 145540 TTTTGTAGCATGCAAGATAGCGGGTCTGCTGGCACGCGTCATGCGGTTTT 145591
 Sbjct 66541 TTTTGTAGCATGCAAGATAGCGGGTCTGCTGGCACGCGTCATGCGGTTTT 66592

Range 20: 33692 to 33744

Score	Expect	Identities	Gaps	Strand	Frame
93.5 bits(50)	4e-18()	52/53(98%)	0/53(0%)	Plus/Plus	

Features:

Query 43603 TGATATTAGCTCATTGCCTGGATTTGAGTTTTCAAAAAGTTCTTAATGCTTGT 43655
Sbjct 33692 TGATATTAACCTCATTGCCTGGATTTGAGTTTTCAAAAAGTTCTTAATGCTTGT 33744

Range 21: 33836 to 33888

Score	Expect	Identities	Gaps	Strand	Frame
93.5 bits(50)	4e-18()	52/53(98%)	0/53(0%)	Plus/Plus	

Features:

Query 43603 TGATATTAGCTCATTGCCTGGATTTGAGTTTTCAAAAAGTTCTTAATGCTTGT 43655
Sbjct 33836 TGATATTAACCTCATTGCCTGGATTTGAGTTTTCAAAAAGTTCTTAATGCTTGT 33888

Range 22: 32757 to 32805

Score	Expect	Identities	Gaps	Strand	Frame
91.6 bits(49)	1e-17()	49/49(100%)	0/49(0%)	Plus/Plus	

Features:

Query 53256 AAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTA 53304
Sbjct 32757 AAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTA 32805

Range 23: 309 to 362

Score	Expect	Identities	Gaps	Strand	Frame
89.8 bits(48)	5e-17()	52/54(96%)	0/54(0%)	Plus/Plus	

Features:

Query 157628 TCTTGAGTGCCTGCCGGATATCTTGATTGATCGCAAGCGAGATCGCTGGCAGTC 157681
Sbjct 309 TCTGGGGTGCCTGCCGGATATCTTGATTGATCGCAAGCGAGATCGCTGGCAGTC 362

Range 24: 67249 to 67315

Score	Expect	Identities	Gaps	Strand	Frame
89.8 bits(48)	5e-17()	61/67(91%)	1/67(1%)	Plus/Plus	

Features:

Query 146057 ttttttttCGT-TTTGGTGAGCGGGAGTGTAGGCAAGCGTGAGGGCATGCGGGTGCGCCG 146115
Sbjct 67249 TTTTTTTTCTTCTTTGGTGAGCGGGAGTGTAGGCAAGCGTGAGGGCATGCGGGTCTGCTG 67308
Query 146116 GCATGCG 146122
Sbjct 67309 GCACGCG 67315

Range 25: 33687 to 33748

Score	Expect	Identities	Gaps	Strand	Frame
87.9 bits(47)	2e-16()	57/62(92%)	0/62(0%)	Plus/Plus	

Features:

Query 43246 CAAATTGATCTGTACTCATTGCCTGGATTTGAGTTTTCAAAAAGTTCTTAACACTTGTTA 43305
Sbjct 33687 CAAATTGATATTAACCTCATTGCCTGGATTTGAGTTTTCAAAAAGTTCTTAATGCTTGTTA 33746
Query 43306 CA 43307
Sbjct 33747 CA 33748

Range 26: 33831 to 33892

Score	Expect	Identities	Gaps	Strand	Frame
87.9 bits(47)	2e-16()	57/62(92%)	0/62(0%)	Plus/Plus	

Features:

Query 43246 CAAATTGATCTGTACTCATTGCCTGGATTTGAGTTTTCAAAAAGTTCTTAACACTTGTTA 43305
Sbjct 33831 CAAATTGATATTAACCTCATTGCCTGGATTTGAGTTTTCAAAAAGTTCTTAATGCTTGTTA 33890
Query 43306 CA 43307
Sbjct 33891 CA 33892

Range 27: 66825 to 66882

Score	Expect	Identities	Gaps	Strand	Frame
86.1 bits(46)	7e-16()	54/58(93%)	0/58(0%)	Plus/Plus	

Features:

Query 144272 ttttttttAAGATTTTGTGAGCGGGAGTGTAGAGGGATCGATCGCGGGCACGAGTGG 144329
 Sbjct 66825 TTTTTTTTGTGCTTTGGTGAGCGGGAGTGTAGAGGGATCGATCGCGGGCACGAGTGG 66882

Range 28: 110252 to 110309

Score	Expect	Identities	Gaps	Strand	Frame
86.1 bits(46)	7e-16()	54/58(93%)	0/58(0%)	Plus/Plus	

Features:

Query 142239 CtttttttttttttttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG 142296
 Sbjct 110252 CTATTTATTTATTTCTTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG 110309

Range 29: 114552 to 114609

Score	Expect	Identities	Gaps	Strand	Frame
86.1 bits(46)	7e-16()	54/58(93%)	0/58(0%)	Plus/Plus	

Features:

Query 142239 CtttttttttttttttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG 142296
 Sbjct 114552 CTATTTATTTATTTCTTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG 114609

Range 30: 119788 to 119845

Score	Expect	Identities	Gaps	Strand	Frame
86.1 bits(46)	7e-16()	54/58(93%)	0/58(0%)	Plus/Plus	

Features:

Query 142239 CtttttttttttttttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG 142296
 Sbjct 119788 CTATTTATTTATTTCTTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG 119845

Range 31: 5700 to 5744

Score	Expect	Identities	Gaps	Strand	Frame
84.2 bits(45)	2e-15()	45/45(100%)	0/45(0%)	Plus/Plus	

Features:

Query 95915 tttttAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAA 95959
 Sbjct 5700 TTTTTAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAA 5744

Range 32: 9948 to 9992

Score	Expect	Identities	Gaps	Strand	Frame
84.2 bits(45)	2e-15()	45/45(100%)	0/45(0%)	Plus/Plus	

Features:

Query 95915 tttttAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAA 95959
 Sbjct 9948 TTTTTAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAA 9992

Range 33: 66325 to 66369

Score	Expect	Identities	Gaps	Strand	Frame
84.2 bits(45)	2e-15()	45/45(100%)	0/45(0%)	Plus/Plus	

Features:

Query 147060 TTTTGTAGATCGCGGGCTGGAGTGCGGGTGCGCCGGCATGCGGG 147104
 Sbjct 66325 TTTTGTAGATCGCGGGCTGGAGTGCGGGTGCGCCGGCATGCGGG 66369

Range 34: 11929 to 11972

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	44/44(100%)	0/44(0%)	Plus/Plus	

Features:

Query 95912 GtttttttAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTAT 95955
 Sbjct 11929 GTTTTTTTAAAAGAGGTGGTAAAAGAGGTGTTAAAAGAGGTTAT 11972

Range 35: 49804 to 49903

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	89/109(82%)	9/109(8%)	Plus/Plus	

Features:

Query 160195 TGCCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCACTCACTTCCttttttt 160254
 Sbjct 49804 TGTCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCACT---TT-TTTTTTTT 49859
 Query 160255 ttccgggatatttttttgatctttttttttttgatcgctctttttttt 160303
 Sbjct 49860 GT-GGTTTTTCttttttt--T-tttttttttttt-Attttttttttttt 49903

Range 36: 77357 to 77400

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	44/44(100%)	0/44(0%)	Plus/Plus	

Features:

Query 144588 TTTGGTGAGCGGGAGTGGGCGCGGGATCGATAGCCGGCAAGCAC 144631
 Sbjct 77357 TTTGGTGAGCGGGAGTGGGCGCGGGATCGATAGCCGGCAAGCAC 77400

Range 37: 105404 to 105450

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	46/47(98%)	0/47(0%)	Plus/Plus	

Features:

Query 142255 tGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTGGGCGC 142301
 Sbjct 105404 TGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTGGTCGC 105450

Range 38: 105988 to 106034

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	46/47(98%)	0/47(0%)	Plus/Plus	

Features:

Query 142255 tGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTGGGCGC 142301
 Sbjct 105988 TGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTGGTCGC 106034

Range 39: 107780 to 107826

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	46/47(98%)	0/47(0%)	Plus/Plus	

Features:

Query 142255 tGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTGGGCGC 142301
 Sbjct 107780 TGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTGGTCGC 107826

Range 40: 109576 to 109622

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	46/47(98%)	0/47(0%)	Plus/Plus	

Features:

Query 142255 tGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTGGGCGC 142301
 Sbjct 109576 TGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTGGTCGC 109622

Range 41: 112256 to 112302

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	46/47(98%)	0/47(0%)	Plus/Plus	

Features:

Query 142255 tGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTGGGCGC 142301
 Sbjct 112256 TGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTGGTCGC 112302

Range 42: 117376 to 117422

Score	Expect	Identities	Gaps	Strand	Frame
82.4 bits(44)	9e-15()	46/47(98%)	0/47(0%)	Plus/Plus	

Features:

Query 142255 tGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTGGGCGC 142301
 Sbjct 117376 TGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTGGTCGC 117422

Range 43: 49804 to 49849

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	45/46(98%)	0/46(0%)	Plus/Plus	

Features:

Query 157131 TGCCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCACT 157176
 Sbjct 49804 TGTCGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCACT 49849

Range 44: 68813 to 68858

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	45/46(98%)	0/46(0%)	Plus/Plus	

Features:

Query 139996 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGCGGTCTTGC 140041
 Sbjct 68813 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGCGGTTTGC 68858

Range 45: 76316 to 76405

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	75/90(83%)	4/90(4%)	Plus/Plus	

Features:

Query 146799 TGTTAGCAAGCAGGATTGCTGGATCGCGGGTAGAGTGATCGCC-G--G-CACGCGAGGG 146854
 Sbjct 76316 TGTTAGCAAGCAGGATTGCTGGATCGCGGGTGGGACTGCTAGCCTGCTGGCACGCGAGCG 76375
 Query 146855 AttttttttCACGTTTTGTGAGCGGGAGTG 146884
 Sbjct 76376 GTtttttttCAGATTGGTGAGCGGGAGTG 76405

Range 46: 105171 to 105213

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	43/43(100%)	0/43(0%)	Plus/Plus	

Features:

Query 142254 ttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
 Sbjct 105171 TTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 105213

Range 47: 105755 to 105797

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	43/43(100%)	0/43(0%)	Plus/Plus	

Features:

Query 142254 ttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
 Sbjct 105755 TTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 105797

Range 48: 107547 to 107589

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	43/43(100%)	0/43(0%)	Plus/Plus	

Features:

Query 142254 ttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
 Sbjct 107547 TTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 107589

Range 49: 109343 to 109385

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	43/43(100%)	0/43(0%)	Plus/Plus	

Features:

Query 142254 ttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
 Sbjct 109343 TTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 109385

Range 50: 112023 to 112065

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	43/43(100%)	0/43(0%)	Plus/Plus	

Features:

Query 142254 ttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
 Sbjct 112023 TTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 112065

Range 51: 117143 to 117185

Score	Expect	Identities	Gaps	Strand	Frame
80.5 bits(43)	3e-14()	43/43(100%)	0/43(0%)	Plus/Plus	

Features:

Query 142254 ttGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
 Sbjct 117143 TTGTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 117185

Range 52: 69795 to 69836

Score	Expect	Identities	Gaps	Strand	Frame
78.7 bits(42)	1e-13()	42/42(100%)	0/42(0%)	Plus/Plus	

Features:

Query 160198 CGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 160239
 Sbjct 69795 CGGCACGCGCGCAAGATCGCAGGCTGGAGTGCCGGCAAGCAC 69836

Range 53: 72005 to 72054

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	47/50(94%)	0/50(0%)	Plus/Plus	

Features:

Query 144208 GGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGGTTGATCGCAAGC 144257
 Sbjct 72005 GGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGGTGAGATCGCAAGC 72054

Range 54: 76853 to 76896

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	43/44(98%)	0/44(0%)	Plus/Plus	

Features:

Query 144468 TTTGGTCTGCGGGCTGGATTGTGCGATCGCGGGCGGtttttttt 144511
 Sbjct 76853 TTTCTGTCTGCGGGCTGGATTGTGCGATCGCGGGCGGTTTTTTT 76896

Range 55: 76901 to 76944

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	43/44(98%)	0/44(0%)	Plus/Plus	
Features:					
Query	144420	TTTGGTCTGCGGGCTGGATTGTTGGCATGCATGCAAGCTATTTT		144463	
Sbjct	76901	TTTCGTCTGCGGGCTGGATTGTTGGCATGCATGCAAGCTATTTT		76944	

Range 56: 92189 to 92229

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	
Features:					
Query	142256	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		142296	
Sbjct	92189	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		92229	

Range 57: 105277 to 105317

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	
Features:					
Query	142256	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		142296	
Sbjct	105277	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		105317	

Range 58: 105861 to 105901

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	
Features:					
Query	142256	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		142296	
Sbjct	105861	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		105901	

Range 59: 107653 to 107693

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	
Features:					
Query	142256	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		142296	
Sbjct	107653	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		107693	

Range 60: 109449 to 109489

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	
Features:					
Query	142256	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		142296	
Sbjct	109449	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		109489	

Range 61: 110065 to 110105

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	
Features:					
Query	142256	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		142296	
Sbjct	110065	GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCCTTG		110105	

Range 62: 110373 to 110413

Score	Expect	Identities	Gaps	Strand	Frame
-------	--------	------------	------	--------	-------

76.8 bits(41) 4e-13() 41/41(100%) 0/41(0%) Plus/Plus

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
Sbjct 110373 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 110413

Range 63: 112129 to 112169

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
Sbjct 112129 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 112169

Range 64: 114365 to 114405

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
Sbjct 114365 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 114405

Range 65: 114673 to 114713

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
Sbjct 114673 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 114713

Range 66: 115165 to 115205

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
Sbjct 115165 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 115205

Range 67: 115293 to 115333

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
Sbjct 115293 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 115333

Range 68: 117249 to 117289

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
Sbjct 117249 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 117289

Range 69: 119601 to 119641

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
 Sbjct 119601 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 119641

Range 70: 119909 to 119949

Score	Expect	Identities	Gaps	Strand	Frame
76.8 bits(41)	4e-13()	41/41(100%)	0/41(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 142296
 Sbjct 119909 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTG 119949

Range 71: 33048 to 33096

Score	Expect	Identities	Gaps	Strand	Frame
75.0 bits(40)	1e-12()	47/50(94%)	2/50(4%)	Plus/Plus	

Features:

Query 114095 TAAAAGAGGTTATAAAAAGAGGTTCTAAAATGGGCGATCGTTG-ttttttt 114143
 Sbjct 33048 TAAAAGAGGTTATAAAAAGAGGTTCTAAAATGGGCAAT-GTTGGTTTTTTT 33096

Range 72: 37584 to 37626

Score	Expect	Identities	Gaps	Strand	Frame
75.0 bits(40)	1e-12()	42/43(98%)	0/43(0%)	Plus/Plus	

Features:

Query 44971 CGGAGATTAGGGCCTCAGAGTTCGTTTCTCTGGAAGCGAGGTT 45013
 Sbjct 37584 CGGACATTAGGGCCTCAGAGTTCGTTTCTCTGGAAGCGAGGTT 37626

Range 73: 36989 to 37048

Score	Expect	Identities	Gaps	Strand	Frame
73.1 bits(39)	5e-12()	53/60(88%)	0/60(0%)	Plus/Plus	

Features:

Query 42532 GCCCTTTTGGTTACCTGTTAAGCGaaaaaaaaCTTAATGTTTATCTCAATGCGGACATTA 42591
 Sbjct 36989 GCCCTTTTGGGCACCTGGGAAAGAAAAAACTTAATGTTTATCTCAATGCGGACATTA 37048

Range 74: 68743 to 68781

Score	Expect	Identities	Gaps	Strand	Frame
73.1 bits(39)	5e-12()	39/39(100%)	0/39(0%)	Plus/Plus	

Features:

Query 139998 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGCGGT 140036
 Sbjct 68743 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGCGGT 68781

Range 75: 70127 to 70165

Score	Expect	Identities	Gaps	Strand	Frame
73.1 bits(39)	5e-12()	39/39(100%)	0/39(0%)	Plus/Plus	

Features:

Query 145994 GTGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCACG 146032
 Sbjct 70127 GTGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCACG 70165

Range 76: 70303 to 70341

Score	Expect	Identities	Gaps	Strand	Frame
73.1 bits(39)	5e-12()	39/39(100%)	0/39(0%)	Plus/Plus	

Features:

Query 145994 GTGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCACG 146032
 Sbjct 70303 GTGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCACG 70341

Range 77: 92641 to 92685

Score	Expect	Identities	Gaps	Strand	Frame
73.1 bits(39)	5e-12()	43/45(96%)	0/45(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTGGGCG 142300
 Sbjct 92641 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTACGGGCG 92685

Range 78: 93537 to 93581

Score	Expect	Identities	Gaps	Strand	Frame
73.1 bits(39)	5e-12()	43/45(96%)	0/45(0%)	Plus/Plus	

Features:

Query 142256 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTCTTGGGCG 142300
 Sbjct 93537 GTAGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTACGGGCG 93581

Range 79: 332 to 375

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	42/44(95%)	0/44(0%)	Plus/Plus	

Features:

Query 142563 TGATTGATCGCAAGCGAGATCGCTGGCAGTCTTGACGCTGGCA 142606
 Sbjct 332 TGATTGATCGCAAGCGAGATCGCTGGCAGTCTTGCTAGCTGGCA 375

Range 80: 20337 to 20374

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	38/38(100%)	0/38(0%)	Plus/Plus	

Features:

Query 108660 ATTAGGGGCTCAACATCTCAGTGGTTCTCTGGATTTGA 108697
 Sbjct 20337 ATTAGGGGCTCAACATCTCAGTGGTTCTCTGGATTTGA 20374

Range 81: 37585 to 37629

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	43/45(96%)	1/45(2%)	Plus/Plus	

Features:

Query 128112 GGAGATTAGGGCTCAGAGTTCGTTTCTCTGGAAGCGAG-TTGAC 128155
 Sbjct 37585 GGACATTAGGGCTCAGAGTTCGTTTCTCTGGAAGCGAGGTTGAC 37629

Range 82: 68813 to 68850

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	38/38(100%)	0/38(0%)	Plus/Plus	

Features:

Query 140224 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140261
 Sbjct 68813 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 68850

Range 83: 68813 to 68850

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	38/38(100%)	0/38(0%)	Plus/Plus	

Features:

Query 140448 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140485
 Sbjct 68813 GCCGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 68850

Range 84: 77251 to 77288

Score	Expect	Identities	Gaps	Strand	Frame
71.3 bits(38)	2e-11()	38/38(100%)	0/38(0%)	Plus/Plus	

Features:

Query 139998 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGCGG 140035
 Sbjct 77251 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGCGG 77288

Range 85: 329 to 365

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	37/37(100%)	0/37(0%)	Plus/Plus	

Features:

Query 141640 TCTTGATTGATCGCAAGCGAGATCGCTGGCAGTCTTG 141676
 Sbjct 329 TCTTGATTGATCGCAAGCGAGATCGCTGGCAGTCTTG 365

Range 86: 9544 to 9580

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	37/37(100%)	0/37(0%)	Plus/Plus	

Features:

Query 61719 TTTTTCCTTATCGCTTTTCTTAGCGCTTCTTTTGGCG 61755
 Sbjct 9544 TTTTTCCTTATCGCTTTTCTTAGCGCTTCTTTTGGCG 9580

Range 87: 13712 to 13748

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	37/37(100%)	0/37(0%)	Plus/Plus	

Features:

Query 61719 TTTTTCCTTATCGCTTTTCTTAGCGCTTCTTTTGGCG 61755
 Sbjct 13712 TTTTTCCTTATCGCTTTTCTTAGCGCTTCTTTTGGCG 13748

Range 88: 24081 to 24122

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	42/44(95%)	2/44(4%)	Plus/Plus	

Features:

Query 44856 AAAAGAGGTTATAAAAGAGGTTCTACCTCTCATGtttttttttt 44899
 Sbjct 24081 AAAAGAGGTTATAAAAGAGGTTCTACCT-TC-TGTTTTTTTTT 24122

Range 89: 33048 to 33098

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	48/53(91%)	2/53(3%)	Plus/Plus	

Features:

Query 94971 TAAAAGAGGTTATAAAAGAGGTTCTAAATGGGGCATCGTTGtttttttCTGG 95023
 Sbjct 33048 TAAAAGAGGTTATAAAAGAGGTTCTAAATGGGCAAT-GTTGGTTTTTT-TGG 33098

Range 90: 33048 to 33096

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	46/50(92%)	2/50(4%)	Plus/Plus	

Features:

Query 94351 TAAAAGAGGTTATAAAAGAGGTTCTAAATGGGGCATCGTTG-ttttttt 94399
 Sbjct 33048 TAAAAGAGGTTATAAAAGAGGTTCTAAATGGGCAAT-GTTGGTTTTTT 33096

Range 91: 33048 to 33096

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	46/50(92%)	2/50(4%)	Plus/Plus	

Features:

Query 115791 TAAAAGAGGTTATAAAAAGAGGTTCTAAAATGGGCCTTCGTTG-tttttttt 115839
 Sbjct 33048 TAAAAGAGGTTATAAAAAGAGGTTCTAAAATGGGCAAT-GTTGGTTTTTTT 33096

Range 92: 65657 to 65696

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	39/40(98%)	0/40(0%)	Plus/Plus	

Features:

Query 145992 GCGTGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCAC 146031
 Sbjct 65657 GCGGGTGGGACTGCTAGCGGGATTGAGTGCCGGCAAGCAC 65696

Range 93: 66400 to 66436

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	37/37(100%)	0/37(0%)	Plus/Plus	

Features:

Query 135759 tGTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 135795
 Sbjct 66400 TGTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 66436

Range 94: 67088 to 67149

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	57/66(86%)	4/66(6%)	Plus/Plus	

Features:

Query 147083 TCGGGGTGCGCCGGCATGCGGGTTGTTTTAACTTTGGTGAGCGGGAGTGGTTGATCGCA 147142
 Sbjct 67088 TCGGGGGGTGCCGGCAGGCGG-TT-TTCCT-A-TTTGGTGAGCGGGAGTGGTTGATCGCA 67143
 Query 147143 AGCTAG 147148
 Sbjct 67144 AGCTAG 67149

Range 95: 70465 to 70501

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	37/37(100%)	0/37(0%)	Plus/Plus	

Features:

Query 144208 GGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGG 144244
 Sbjct 70465 GGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGG 70501

Range 96: 70625 to 70661

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	37/37(100%)	0/37(0%)	Plus/Plus	

Features:

Query 144208 GGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGG 144244
 Sbjct 70625 GGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGCGGG 70661

Range 97: 71072 to 71114

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	41/43(95%)	0/43(0%)	Plus/Plus	

Features:

Query 137151 tGTCGGCACGAGCGCTGGCATGCCGGCGTTCTTGCTGGATCGC 137193
 Sbjct 71072 TGTCGGCACGAGCGCTGGCATGCCGGCGTGGTTGCTGGATCGC 71114

Range 98: 71256 to 71298

Score	Expect	Identities	Gaps	Strand	Frame
69.4 bits(37)	7e-11()	41/43(95%)	0/43(0%)	Plus/Plus	

Features:

Query 137151 tGTCGGCACGAGCGCTGGCATGCCGGCGTTCCTGCTGGATCGC 137193
 Sbjct 71256 TGTTCGGCACGAGCGCTGGCATGCCGGCGTGGTTGCTGGATCGC 71298

Range 99: 65845 to 65880

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 144164 GAGTGGTTGATCGCAAGCTAGCGGGATAGATATTTT 144199
 Sbjct 65845 GAGTGGTTGATCGCAAGCTAGCGGGATAGATATTTT 65880

Range 100: 66969 to 67051

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	68/83(82%)	4/83(4%)	Plus/Plus	

Features:

Query 144244 GGTGATCGCAAGCTAGCGGGATAGATAttt---ttttAAGATTTTGTGAGCGGGAGT 144299
 Sbjct 66969 GGTGATCGCAAGCTAGCGGGATAGATAGTCGGCGTTTTATCCTTTGGTGAGCGGGAGT 67028
 Query 144300 GTTAGAGGGATCGATCGCGGGCA 144322
 Sbjct 67029 GGTAGACGGATAGAGTGCAGGGCA 67051

Range 101: 68743 to 68778

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 140226 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140261
 Sbjct 68743 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 68778

Range 102: 68743 to 68778

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 140450 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140485
 Sbjct 68743 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 68778

Range 103: 76049 to 76084

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 135760 GTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 135795
 Sbjct 76049 GTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 76084

Range 104: 76968 to 77016

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	45/49(92%)	1/49(2%)	Plus/Plus	

Features:

Query 142371 TGTATGCCGGCTCGATCGCTGGATCGACGttttttttttttt-ttttc 142418
 Sbjct 76968 TGTATGCCGGCTCGATCGCTGGATCGACGGTTGTTTTTTTAAATTTTC 77016

Range 105: 77251 to 77286

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 140226 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140261
 Sbjct 77251 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 77286

Range 106: 77251 to 77286

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 140450 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 140485
 Sbjct 77251 CGGCACGCCGGAGTGCCGGCTGGCATGCCGGACCGC 77286

Range 107: 91495 to 91530

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 142258 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 142293
 Sbjct 91495 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 91530

Range 108: 94355 to 94390

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 142258 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 142293
 Sbjct 94355 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 94390

Range 109: 117667 to 117702

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 142258 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 142293
 Sbjct 117667 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 117702

Range 110: 118019 to 118054

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 142258 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 142293
 Sbjct 118019 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 118054

Range 111: 120823 to 120858

Score	Expect	Identities	Gaps	Strand	Frame
67.6 bits(36)	2e-10()	36/36(100%)	0/36(0%)	Plus/Plus	

Features:

Query 142258 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 142293
 Sbjct 120823 AGGCCGGCTAGATCGCAAGATAGCAAGCGCGAGTTC 120858

Range 112: 377 to 414

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	37/38(97%)	0/38(0%)	Plus/Plus	

Features:

Query 160712 GCACGCAAGAGTTCTTGCTCGCGGTCCTTGATCGCGGGC 160749
 Sbjct 377 GCACGCAAGAGTTCTTGCTCGCGGTCCTTGATCGAGGGC 414

Range 113: 32786 to 32820

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	35/35(100%)	0/35(0%)	Plus/Plus	

Features:

Query 53253 GTTAAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTT 53287
 Sbjct 32786 GTTAAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTT 32820

Range 114: 37589 to 37623

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	35/35(100%)	0/35(0%)	Plus/Plus	

Features:

Query 53412 ATTAGGGCCTCAGAGTTCGTTTCTCTGGAAGCGAG 53446
 Sbjct 37589 ATTAGGGCCTCAGAGTTCGTTTCTCTGGAAGCGAG 37623

Range 115: 65304 to 65360

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	54/62(87%)	5/62(8%)	Plus/Plus	

Features:

Query 144134 AtttttttttGAAGTTTTGTGGGACTGCCGGAGTGGTTGATCGCAAGCTAGCGGGATAGA 144193
 Sbjct 65304 ATtttttttt--AGTTTT-AGGTA--GCGGGAGTGGTTGATCGCAAGCTAGCGGGATAGA 65358
 Query 144194 TA 144195
 Sbjct 65359 TA 65360

Range 116: 66393 to 66436

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	41/44(93%)	0/44(0%)	Plus/Plus	

Features:

Query 137244 GCTGTCTTGCGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 137287
 Sbjct 66393 GCTGGCGTGTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 66436

Range 117: 66393 to 66436

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	41/44(93%)	0/44(0%)	Plus/Plus	

Features:

Query 137312 GCTGTCTTGCGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 137355
 Sbjct 66393 GCTGGCGTGTGTGCCGGATCGCGGGCTAGAGTGCAAGATCGACG 66436

Range 118: 76051 to 76097

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	43/47(91%)	0/47(0%)	Plus/Plus	

Features:

Query 138770 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACGtttttttttttG 138816
 Sbjct 76051 GTGCCGGATCGCGGGCTAGAGTGCAAGATCGACGGGGATTTTTTTTG 76097

Range 119: 92140 to 92174

Score	Expect	Identities	Gaps	Strand	Frame
65.8 bits(35)	9e-10()	35/35(100%)	0/35(0%)	Plus/Plus	

Features:

Query 138131 T G C G T G C G G G A T A G C T A G A T C G C C G G A T T G A G T G C 138165
 Sbjct 92140 T G C G T G C G G G A T A G C T A G A T C G C C G G A T T G A G T G C 92174

Range 120: 66400 to 66436

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	36/37(97%)	0/37(0%)	Plus/Plus	

Features:

Query 138767 T G C G T G C C G G A T C G C G G G C T A G A G T G C A A G A T C G A C G 138803
 Sbjct 66400 T G T G T G C C G G A T C G C G G G C T A G A G T G C A A G A T C G A C G 66436

Range 121: 66585 to 66682

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	78/98(80%)	8/98(8%)	Plus/Plus	

Features:

Query 145328 G C G G T T T T C A C A T T T C G G G C G C C G G A T C G A G T G A G G G C T G G C A T G - T T G - - - G C A T G C A T 145383
 Sbjct 66585 G C G G T T T T C T G C T T T A G G G C G C C G G A T C G A G T G A G G G C T G G C A T G G T T G A T C G C A A G A G T 66644
 Query 145384 G C A A G C T A - - - t t t t t t t t t t G C T - T T T C G G T C G C G G G C 145417
 Sbjct 66645 G C G G G C T A G A G T T T T T T T T T C C T A T T C G G T G G A G G G C 66682

Range 122: 68181 to 68239

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	51/59(86%)	2/59(3%)	Plus/Plus	

Features:

Query 147046 G G G T T G T T T T T A G - T - T T T T G T T A G A T C G C G G G C T G G A G T G C G G G T G C G C C G G C A T G C G 147102
 Sbjct 68181 G G G A T T T T T T T T G C T G T T T T G T T A G A T C G C G G G C T G G A G T G C G G G G A G C C G G C A C G C G 68239

Range 123: 72057 to 72096

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	38/40(95%)	0/40(0%)	Plus/Plus	

Features:

Query 144236 G A G T G C G G G G T T G A T C G C A A G C T A G C G G G A T A G A T A t t t t 144275
 Sbjct 72057 G A G C G C G G G G T T G A T C G C A A G C T A G C G G G A T A G A T A G T T T 72096

Range 124: 76051 to 76084

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 137254 G T G C C G G A T C G C G G G C T A G A G T G C A A G A T C G A C G 137287
 Sbjct 76051 G T G C C G G A T C G C G G G C T A G A G T G C A A G A T C G A C G 76084

Range 125: 76051 to 76084

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 137322 G T G C C G G A T C G C G G G C T A G A G T G C A A G A T C G A C G 137355
 Sbjct 76051 G T G C C G G A T C G C G G G C T A G A G T G C A A G A T C G A C G 76084

Range 126: 91945 to 91978

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 138048 TCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 138081
 Sbjct 91945 TCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 91978

Range 127: 92321 to 92354

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 138132 GCGTGC GGGATAGCTAGATCGCCGGATTGAGTGC 138165
 Sbjct 92321 GCGTGC GGGATAGCTAGATCGCCGGATTGAGTGC 92354

Range 128: 92805 to 92838

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 138048 TCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 138081
 Sbjct 92805 TCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 92838

Range 129: 93701 to 93734

Score	Expect	Identities	Gaps	Strand	Frame
63.9 bits(34)	3e-09()	34/34(100%)	0/34(0%)	Plus/Plus	

Features:

Query 138048 TCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 138081
 Sbjct 93701 TCTTGATTGATCGCAAGCTAGCGGGATAGATAGC 93734

Range 130: 32757 to 32789

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 53272 AAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTA 53304
 Sbjct 32757 AAAAGAGTTCGTTGTTAAAAGAGTTCGTTGTTA 32789

Range 131: 67125 to 67160

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	35/36(97%)	0/36(0%)	Plus/Plus	

Features:

Query 144160 GCCGGAGTGGTTGATCGCAAGCTAGCGGGATAGATA 144195
 Sbjct 67125 GCCGGAGTGGTTGATCGCAAGCTAGCGGGATAGATA 67160

Range 132: 77117 to 77158

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	39/42(93%)	0/42(0%)	Plus/Plus	

Features:

Query 145332 TTTTCACATTTCCGGCGCCGGATCGAGTGAGGGCTGGCATGT 145373
 Sbjct 77117 TTTTCTTATTTAGGGCGCCGGATCGAGTGAGGGCTGGCATGT 77158

Range 133: 91609 to 91641

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 144600 GAGTGGGCGCGGGATCGATAGCCGGCAAGCACT 144632
 Sbjct 91609 GAGTGGGCGCGGGATCGATAGCCGGCAAGCACT 91641

Range 134: 91873 to 91905

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 157096 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 157128
 Sbjct 91873 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 91905

Range 135: 91873 to 91905

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 158496 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 158528
 Sbjct 91873 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 91905

Range 136: 91873 to 91905

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 159444 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 159476
 Sbjct 91873 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 91905

Range 137: 92717 to 92749

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 157096 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 157128
 Sbjct 92717 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 92749

Range 138: 92717 to 92749

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 158496 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 158528
 Sbjct 92717 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 92749

Range 139: 92717 to 92749

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 159444 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 159476
 Sbjct 92717 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 92749

Range 140: 93613 to 93645

Score	Expect	Identities	Gaps	Strand	Frame
-------	--------	------------	------	--------	-------

62.1 bits(33) 1e-08() 33/33(100%) 0/33(0%) Plus/Plus

Features:

Query 157096 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 157128
Sbjct 93613 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 93645

Range 141: 93613 to 93645

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 158496 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 158528
Sbjct 93613 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 93645

Range 142: 93613 to 93645

Score	Expect	Identities	Gaps	Strand	Frame
62.1 bits(33)	1e-08()	33/33(100%)	0/33(0%)	Plus/Plus	

Features:

Query 159444 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 159476
Sbjct 93613 TCTTGAGCGCGGGATCGATAGCCGGCAAGCACT 93645

Range 143: 36105 to 36136

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 102964 ACCATTTCTATAATTTGGAAGGACGGAGGGCA 102995
Sbjct 36105 ACCATTTCTATAATTTGGAAGGACGGAGGGCA 36136

Range 144: 65329 to 65360

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144324 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 144355
Sbjct 65329 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 65360

Range 145: 65849 to 65880

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144244 GGTTGATCGCAAGCTAGCGGGATAGATAtttt 144275
Sbjct 65849 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 65880

Range 146: 66965 to 66996

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144164 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 144195
Sbjct 66965 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 66996

Range 147: 67129 to 67160

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144324 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 144355
Sbjct 67129 GAGTGGTTGATCGCAAGCTAGCGGGATAGATA 67160

Range 148: 70464 to 70498

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	34/35(97%)	0/35(0%)	Plus/Plus	

Features:

Query 141675 TGAGTGC GGGATCGCAGGCCGGCACGCTGGAGTGC 141709
Sbjct 70464 TGGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGC 70498

Range 149: 70624 to 70658

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	34/35(97%)	0/35(0%)	Plus/Plus	

Features:

Query 141675 TGAGTGC GGGATCGCAGGCCGGCACGCTGGAGTGC 141709
Sbjct 70624 TGGGTGCGGGATCGCAGGCCGGCACGCTGGAGTGC 70658

Range 150: 72007 to 72038

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 141678 GTGCGGGATCGCAGGCCGGCACGCTGGAGTGC 141709
Sbjct 72007 GTGCGGGATCGCAGGCCGGCACGCTGGAGTGC 72038

Range 151: 76467 to 76498

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 141678 GTGCGGGATCGCAGGCCGGCACGCTGGAGTGC 141709
Sbjct 76467 GTGCGGGATCGCAGGCCGGCACGCTGGAGTGC 76498

Range 152: 76501 to 76532

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144168 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 144199
Sbjct 76501 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 76532

Range 153: 76501 to 76532

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 144328 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 144359
Sbjct 76501 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 76532

Range 154: 91945 to 91976

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 138668 TCTTGATTGATCGCAAGCTAGCGGGATAGATA 138699
Sbjct 91945 TCTTGATTGATCGCAAGCTAGCGGGATAGATA 91976

Range 155: 92805 to 92836

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 138668 TCTTGATTGATCGCAAGCTAGCGGGATAGATA 138699
Sbjct 92805 TCTTGATTGATCGCAAGCTAGCGGGATAGATA 92836

Range 156: 93701 to 93732

Score	Expect	Identities	Gaps	Strand	Frame
60.2 bits(32)	4e-08()	32/32(100%)	0/32(0%)	Plus/Plus	

Features:

Query 138668 TCTTGATTGATCGCAAGCTAGCGGGATAGATA 138699
Sbjct 93701 TCTTGATTGATCGCAAGCTAGCGGGATAGATA 93732

Range 157: 16561 to 16594

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	33/34(97%)	0/34(0%)	Plus/Plus	

Features:

Query 101716 CTGGAAAAGAGTTTACTTATCGATTTTCTCAGT 101749
Sbjct 16561 CTGGAAAAGAGTTTACTTATCGATTTTCTTAGT 16594

Range 158: 24073 to 24109

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	35/37(95%)	0/37(0%)	Plus/Plus	

Features:

Query 127700 GAGGTTAAAAAGAGGTTATAAAGAGGTTCTACCTT 127736
Sbjct 24073 GAGTTTACAAAAGAGGTTATAAAGAGGTTCTACCTT 24109

Range 159: 66477 to 66510

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	33/34(97%)	0/34(0%)	Plus/Plus	

Features:

Query 142764 ttttGTGAGCGGGAGTGATGCTGGATAGAGTGT 142797
Sbjct 66477 TTTGGTGAGCGGGAGTGATGCTGGATAGAGTGT 66510

Range 160: 76316 to 76384

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	57/69(83%)	4/69(5%)	Plus/Plus	

Features:

Query 146727 TGTTAGCAAGCAGGATTGCTGGATCGCGGGTAGAGTGATCGCC---GGCACGCGAGTT 146782
Sbjct 76316 TGTTAGCAAGCAGGATTGCTGGATCGCGGGTGGGACTGCTAGCCTGCTGGCACGCGAGCG 76375
Query 146783 Gttttttttt 146791
Sbjct 76376 GTtttttttt 76384

Range 161: 76503 to 76576

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	63/78(81%)	4/78(5%)	Plus/Plus	

Features:

Query 138674 TTGATCGCAAGCTAGCGGGATAGATATTTTGTACGCAATCTTGATAGAGGGCTAGCCTTC 138733
 Sbjct 76503 TTGATCGCAAGCTAGCGGGATAGATATTTTGTGCA--CTT--TAGGGGGCACGCCTGC 76558
 Query 138734 TTGCGCGCCGGCATGCGG 138751
 Sbjct 76559 TGGCACGCGTGATGCGG 76576

Range 162: 77181 to 77214

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	33/34(97%)	0/34(0%)	Plus/Plus	

Features:

Query 145284 TTTTCGGGCGCCGGATCGAGTGAGGGCTGGCATGT 145317
 Sbjct 77181 TTTAGGGCGCCGGATCGAGTGAGGGCTGGCATGT 77214

Range 163: 91875 to 91905

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	31/31(100%)	0/31(0%)	Plus/Plus	

Features:

Query 152478 TTGAGCGCGGGATCGATAGCCGGCAAGCACT 152508
 Sbjct 91875 TTGAGCGCGGGATCGATAGCCGGCAAGCACT 91905

Range 164: 92719 to 92749

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	31/31(100%)	0/31(0%)	Plus/Plus	

Features:

Query 152478 TTGAGCGCGGGATCGATAGCCGGCAAGCACT 152508
 Sbjct 92719 TTGAGCGCGGGATCGATAGCCGGCAAGCACT 92749

Range 165: 93615 to 93645

Score	Expect	Identities	Gaps	Strand	Frame
58.4 bits(31)	1e-07()	31/31(100%)	0/31(0%)	Plus/Plus	

Features:

Query 152478 TTGAGCGCGGGATCGATAGCCGGCAAGCACT 152508
 Sbjct 93615 TTGAGCGCGGGATCGATAGCCGGCAAGCACT 93645

Range 166: 5709 to 5745

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	35/37(95%)	2/37(5%)	Plus/Plus	

Features:

Query 60122 GAGGT-G-AAAAGAGGTGTTAAAAGAGGTTATAAAAT 60156
 Sbjct 5709 GAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAAT 5745

Range 167: 9957 to 9993

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	35/37(95%)	2/37(5%)	Plus/Plus	

Features:

Query 60122 GAGGT-G-AAAAGAGGTGTTAAAAGAGGTTATAAAAT 60156
 Sbjct 9957 GAGGTGGTAAAAGAGGTGTTAAAAGAGGTTATAAAAT 9993

Range 168: 65848 to 65880

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	32/33(97%)	0/33(0%)	Plus/Plus	

Features:

Query 138671 TGATTGATCGCAAGCTAGCGGGATAGATATTTT 138703
 Sbjct 65848 TGGTTGATCGCAAGCTAGCGGGATAGATATTTT 65880

Range 169: 66597 to 66629

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	32/33(97%)	0/33(0%)	Plus/Plus	

Features:

Query 145284 TTTCTGGGCGCCGGATCGAGTGAGGGCTGGCATG 145316
 Sbjct 66597 TTTAGGGCGCCGGATCGAGTGAGGGCTGGCATG 66629

Range 170: 67223 to 67252

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 137682 TGGCGTGCGTGATCGCGGGATAGATATTTT 137711
 Sbjct 67223 TGGCGTGCGTGATCGCGGGATAGATATTTT 67252

Range 171: 67496 to 67525

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 142911 TGTAGGCGGGATAGATAGCTGGCGAGCGGG 142940
 Sbjct 67496 TGTAGGCGGGATAGATAGCTGGCGAGCGGG 67525

Range 172: 67919 to 67948

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 145190 TTGTGTGCGGGATAGAGTGATCGCAAGACG 145219
 Sbjct 67919 TTGTGTGCGGGATAGAGTGATCGCAAGACG 67948

Range 173: 68213 to 68248

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	34/36(94%)	0/36(0%)	Plus/Plus	

Features:

Query 142872 GCCGGAGCGCGGGGGAGCCGGCAGCGTGCAAGAGA 142907
 Sbjct 68213 GCTGGAGTGCGGGGGAGCCGGCAGCGTGCAAGAGA 68248

Range 174: 69501 to 69530

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	30/30(100%)	0/30(0%)	Plus/Plus	

Features:

Query 142912 GTAGGCGGGATAGATAGCTGGCGAGCGGGT 142941
 Sbjct 69501 GTAGGCGGGATAGATAGCTGGCGAGCGGGT 69530

Range 175: 75337 to 75373

Score	Expect	Identities	Gaps	Strand	Frame
56.5 bits(30)	5e-07()	35/37(95%)	2/37(5%)	Plus/Plus	

Features:

Query 140802 TCTC-TT-GGAAGCAAGCACGCGGGACTGCCGGAGTT 140836
 Sbjct 75337 TCTCTTTAGGAAGCAAGCACGCGGGACTGCCGGAGTT 75373

Range 176: 5716 to 5744

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 88007 tAAAAGAGGTGTTAAAAGAGGTTATAAAA 88035
 Sbjct 5716 TAAAAGAGGTGTTAAAAGAGGTTATAAAA 5744

Range 177: 9964 to 9992

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 88007 tAAAAGAGGTGTTAAAAGAGGTTATAAAA 88035
 Sbjct 9964 TAAAAGAGGTGTTAAAAGAGGTTATAAAA 9992

Range 178: 18505 to 18536

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	32/33(97%)	1/33(3%)	Plus/Plus	

Features:

Query 128080 AAGAAGCTTGCAATTTAAGAAGTTTCTAATTGG 128112
 Sbjct 18505 AAGAAGCTTGCAATTTAAGAAGTTTCTA-TTGG 18536

Range 179: 27325 to 27356

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	31/32(97%)	0/32(0%)	Plus/Plus	

Features:

Query 71532 ATTTATTAGGGGCTCAACATCTTAACATTGGT 71563
 Sbjct 27325 ATTTAATTAGGGGCTCAACATCTTAACATTGGT 27356

Range 180: 67417 to 67445

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 142912 GTAGGCGGGATAGATAGCTGGCGAGCGGG 142940
 Sbjct 67417 GTAGGCGGGATAGATAGCTGGCGAGCGGG 67445

Range 181: 67948 to 67976

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 142883 GGGGAGCCGGCACGCGTGCAAGAGATTTT 142911
 Sbjct 67948 GGGGAGCCGGCACGCGTGCAAGAGATTTT 67976

Range 182: 71072 to 71100

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 136575 tGTCGGCACGAGCGCTGGCATGCCGGCGT 136603
 Sbjct 71072 TGTCGGCACGAGCGCTGGCATGCCGGCGT 71100

Range 183: 71256 to 71284

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 136575 tGTCGGCACGAGCGCTGGCATGCCGGCGT 136603
 Sbjct 71256 TGTCGGCACGAGCGCTGGCATGCCGGCGT 71284

Range 184: 72065 to 72096

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	31/32(97%)	0/32(0%)	Plus/Plus	

Features:

Query 144168 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 144199
 Sbjct 72065 GGTTGATCGCAAGCTAGCGGGATAGATAGTTT 72096

Range 185: 72065 to 72096

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	31/32(97%)	0/32(0%)	Plus/Plus	

Features:

Query 144328 GGTTGATCGCAAGCTAGCGGGATAGATATTTT 144359
 Sbjct 72065 GGTTGATCGCAAGCTAGCGGGATAGATAGTTT 72096

Range 186: 91877 to 91905

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 157000 GAGCGCGGGATCGATAGCCGGCAAGCACT 157028
 Sbjct 91877 GAGCGCGGGATCGATAGCCGGCAAGCACT 91905

Range 187: 92721 to 92749

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 157000 GAGCGCGGGATCGATAGCCGGCAAGCACT 157028
 Sbjct 92721 GAGCGCGGGATCGATAGCCGGCAAGCACT 92749

Range 188: 93617 to 93645

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	2e-06()	29/29(100%)	0/29(0%)	Plus/Plus	

Features:

Query 157000 GAGCGCGGGATCGATAGCCGGCAAGCACT 157028
 Sbjct 93617 GAGCGCGGGATCGATAGCCGGCAAGCACT 93645

Range 189: 5704 to 5744

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	40/45(89%)	4/45(8%)	Plus/Plus	

Features:

Query 114067 TAAAAGAGGTGCTGGGCAAAAGAGGTGTTAAAAGAGGTTATAAAA 114111
 Sbjct 5704 TAAAAGA-G-G-T-GGTAAAAGAGGTGTTAAAAGAGGTTATAAAA 5744

Range 190: 9952 to 9992

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	40/45(89%)	4/45(8%)	Plus/Plus	
Features:					
Query	114067	TAAAAGAGGTGCTGGGCAAAAGAGGTGTTAAAAGAGGTTATAAAA		114111	
Sbjct	9952	TAAAAGA-G-G-T-GGTAAAAGAGGTGTTAAAAGAGGTTATAAAA		9992	

Range 191: 27329 to 27356

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	
Features:					
Query	74780	ATTAGGGGCTCAACATCTTAACATTGGT		74807	
Sbjct	27329	ATTAGGGGCTCAACATCTTAACATTGGT		27356	

Range 192: 65333 to 65360

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	
Features:					
Query	144244	GGTTGATCGCAAGCTAGCGGGATAGATA		144271	
Sbjct	65333	GGTTGATCGCAAGCTAGCGGGATAGATA		65360	

Range 193: 67133 to 67160

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	
Features:					
Query	144244	GGTTGATCGCAAGCTAGCGGGATAGATA		144271	
Sbjct	67133	GGTTGATCGCAAGCTAGCGGGATAGATA		67160	

Range 194: 67297 to 67324

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	
Features:					
Query	145560	GCGGGTCTGCTGGCACGCGTGCATGCGG		145587	
Sbjct	67297	GCGGGTCTGCTGGCACGCGTGCATGCGG		67324	

Range 195: 67553 to 67580

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	
Features:					
Query	142884	GGGAGCCGGCACGCGTGCAAGAGATTTT		142911	
Sbjct	67553	GGGAGCCGGCACGCGTGCAAGAGATTTT		67580	

Range 196: 69765 to 69792

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	
Features:					
Query	144604	GGGCGCGGGATCGATAGCCGGCAAGCAC		144631	
Sbjct	69765	GGGCGCGGGATCGATAGCCGGCAAGCAC		69792	

Range 197: 70497 to 70524

Score	Expect	Identities	Gaps	Strand	Frame
-------	--------	------------	------	--------	-------

52.8 bits(28) 7e-06() 28/28(100%) 0/28(0%) Plus/Plus

Features:

Query 145560 GCGGGTCTGCTGGCACGCGTGCATGCGG 145587
Sbjct 70497 GCGGGTCTGCTGGCACGCGTGCATGCGG 70524

Range 198: 70657 to 70684

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 145560 GCGGGTCTGCTGGCACGCGTGCATGCGG 145587
Sbjct 70657 GCGGGTCTGCTGGCACGCGTGCATGCGG 70684

Range 199: 73605 to 73632

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 137600 GGGGGCACGCCAGCACGCAAGAGAGCAC 137627
Sbjct 73605 GGGGGCACGCCAGCACGCAAGAGAGCAC 73632

Range 200: 73605 to 73632

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 150608 GGGGGCACGCCAGCACGCAAGAGAGCAC 150635
Sbjct 73605 GGGGGCACGCCAGCACGCAAGAGAGCAC 73632

Range 201: 75533 to 75560

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 136872 GCTAGCAAGCACGAGTGATCGCAAGCAT 136899
Sbjct 75533 GCTAGCAAGCACGAGTGATCGCAAGCAT 75560

Range 202: 77019 to 77052

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	32/34(94%)	0/34(0%)	Plus/Plus	

Features:

Query 144162 CGGAGTGGTTGATCGCAAGCTAGCGGGATAGATA 144195
Sbjct 77019 CGGATAGGTTGATCGCAAGCTAGCGGGATAGATA 77052

Range 203: 77025 to 77052

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 144244 GGTTGATCGCAAGCTAGCGGGATAGATA 144271
Sbjct 77025 GGTTGATCGCAAGCTAGCGGGATAGATA 77052

Range 204: 77025 to 77052

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 144328 GGTTCGATCGCAAGCTAGCGGGATAGATA 144355
Sbjct 77025 GGTTCGATCGCAAGCTAGCGGGATAGATA 77052

Range 205: 77027 to 77054

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 138054 TTGATCGCAAGCTAGCGGGATAGATAGC 138081
Sbjct 77027 TTGATCGCAAGCTAGCGGGATAGATAGC 77054

Range 206: 77541 to 77568

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 145560 GCGGGTCTGCTGGCACGCGTGCATGCGG 145587
Sbjct 77541 GCGGGTCTGCTGGCACGCGTGCATGCGG 77568

Range 207: 94557 to 94584

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 160052 GATCGCGGGATGGAGGGCGGGATAGAGT 160079
Sbjct 94557 GATCGCGGGATGGAGGGCGGGATAGAGT 94584

Range 208: 94717 to 94744

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 160052 GATCGCGGGATGGAGGGCGGGATAGAGT 160079
Sbjct 94717 GATCGCGGGATGGAGGGCGGGATAGAGT 94744

Range 209: 94997 to 95024

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 160052 GATCGCGGGATGGAGGGCGGGATAGAGT 160079
Sbjct 94997 GATCGCGGGATGGAGGGCGGGATAGAGT 95024

Range 210: 95169 to 95196

Score	Expect	Identities	Gaps	Strand	Frame
52.8 bits(28)	7e-06()	28/28(100%)	0/28(0%)	Plus/Plus	

Features:

Query 160052 GATCGCGGGATGGAGGGCGGGATAGAGT 160079
Sbjct 95169 GATCGCGGGATGGAGGGCGGGATAGAGT 95196