



The SEED Viewer

SEED Viewer version 2.0

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Group18 Cperf

Mark region in Genome Browser

[Contig NODE 30 length 48292 cov 15.609924 hit #1](#)
[Contig NODE 30 length 48292 cov 15.609924 hit #2](#)
[Contig NODE 30 length 48292 cov 15.609924 hit #3](#)
[Contig NODE 30 length 48292 cov 15.609924 hit #4](#)
[Contig NODE 30 length 48292 cov 15.609924 hit #5](#)
[Contig NODE 30 length 48292 cov 15.609924 hit #6](#)
[Contig NODE 30 length 48292 cov 15.609924 hit #7](#)
[Contig NODE 30 length 48292 cov 15.609924 hit #8](#)
[Contig NODE 30 length 48292 cov 15.609924 hit #9](#)

[Contig NODE 27 length 62334 cov 15.396226 hit #1](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #2](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #3](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #4](#)

[Contig NODE 23 length 71673 cov 15.369161 hit #1](#)
[Contig NODE 23 length 71673 cov 15.369161 hit #2](#)
[Contig NODE 23 length 71673 cov 15.369161 hit #3](#)
[Contig NODE 23 length 71673 cov 15.369161 hit #4](#)
[Contig NODE 23 length 71673 cov 15.369161 hit #5](#)
[Contig NODE 23 length 71673 cov 15.369161 hit #6](#)
[Contig NODE 23 length 71673 cov 15.369161 hit #7](#)
[Contig NODE 23 length 71673 cov 15.369161 hit #8](#)

[Contig NODE 1 length 566821 cov 8.393009 hit #1](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #2](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #3](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #4](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #5](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #6](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #7](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #8](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #9](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #10](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #11](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #12](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #13](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #14](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #15](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #16](#)

[Contig NODE 42 length 1203 cov 15.188662 hit #1](#)
[Contig NODE 42 length 1203 cov 15.188662 hit #2](#)

[Contig NODE 43 length 1096 cov 31.518060 hit #1](#)

[Contig NODE 57 length 464 cov 11.741840 hit #1](#)
[Contig NODE 57 length 464 cov 11.741840 hit #2](#)

[Contig NODE 61 length 430 cov 16.871287 hit #1](#)
[Contig NODE 61 length 430 cov 16.871287 hit #2](#)
[Contig NODE 61 length 430 cov 16.871287 hit #3](#)

[Contig NODE 72 length 369 cov 12.644628 hit #1](#)

[Contig NODE 72 length 369 cov 12.644628 hit #2](#)

[Contig NODE 14 length 153665 cov 8.989794 hit #1](#)
[Contig NODE 14 length 153665 cov 8.989794 hit #2](#)
[Contig NODE 14 length 153665 cov 8.989794 hit #3](#)
[Contig NODE 14 length 153665 cov 8.989794 hit #4](#)
[Contig NODE 14 length 153665 cov 8.989794 hit #5](#)
[Contig NODE 14 length 153665 cov 8.989794 hit #6](#)

[Contig NODE 16 length 96205 cov 11.645944 hit #1](#)
[Contig NODE 16 length 96205 cov 11.645944 hit #2](#)

[Contig NODE 3 length 470369 cov 9.494788 hit #1](#)
[Contig NODE 3 length 470369 cov 9.494788 hit #2](#)
[Contig NODE 3 length 470369 cov 9.494788 hit #3](#)
[Contig NODE 3 length 470369 cov 9.494788 hit #4](#)
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[Contig NODE 3 length 470369 cov 9.494788 hit #7](#)
[Contig NODE 3 length 470369 cov 9.494788 hit #8](#)
[Contig NODE 3 length 470369 cov 9.494788 hit #9](#)

[Contig NODE 46 length 1018 cov 16.254770 hit #1](#)

[Contig NODE 4 length 398729 cov 7.868694 hit #1](#)
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[Contig NODE 4 length 398729 cov 7.868694 hit #3](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #4](#)
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[Contig NODE 4 length 398729 cov 7.868694 hit #7](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #8](#)

[Contig NODE 32 length 43518 cov 20.448595 hit #1](#)
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[Contig NODE 32 length 43518 cov 20.448595 hit #3](#)

[Contig NODE 10 length 222279 cov 9.401747 hit #1](#)

[Contig NODE 12 length 196820 cov 8.472076 hit #1](#)
[Contig NODE 12 length 196820 cov 8.472076 hit #2](#)
[Contig NODE 12 length 196820 cov 8.472076 hit #3](#)

[Contig NODE 11 length 214047 cov 8.768119 hit #1](#)
[Contig NODE 11 length 214047 cov 8.768119 hit #2](#)
[Contig NODE 11 length 214047 cov 8.768119 hit #3](#)
[Contig NODE 11 length 214047 cov 8.768119 hit #4](#)

[Contig NODE 8 length 247549 cov 9.773464 hit #1](#)
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[Contig NODE 8 length 247549 cov 9.773464 hit #3](#)
[Contig NODE 8 length 247549 cov 9.773464 hit #4](#)
[Contig NODE 8 length 247549 cov 9.773464 hit #5](#)

[Contig NODE 22 length 75116 cov 9.737735 hit #1](#)
[Contig NODE 22 length 75116 cov 9.737735 hit #2](#)

[Contig NODE 31 length 45171 cov 18.968520 hit #1](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #2](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #3](#)

[Contig NODE 2 length 478638 cov 9.783182 hit #1](#)
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[Contig NODE 2 length 478638 cov 9.783182 hit #3](#)
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[Contig NODE 2 length 478638 cov 9.783182 hit #5](#)
[Contig NODE 2 length 478638 cov 9.783182 hit #6](#)
[Contig NODE 2 length 478638 cov 9.783182 hit #7](#)
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[Contig NODE 37 length 21672 cov 17.473938 hit #1](#)

[Contig NODE 18 length 93281 cov 10.372534 hit #1](#)

[Contig NODE 9 length 237731 cov 8.189807 hit #1](#)
[Contig NODE 9 length 237731 cov 8.189807 hit #2](#)
[Contig NODE 9 length 237731 cov 8.189807 hit #3](#)
[Contig NODE 9 length 237731 cov 8.189807 hit #4](#)

[Contig NODE 5 length 361067 cov 9.330210 hit #1](#)

[Contig NODE 26 length 62505 cov 11.128427 hit #1](#)
[Contig NODE 26 length 62505 cov 11.128427 hit #2](#)

[Contig NODE 25 length 69837 cov 10.709066 hit #1](#)
[Contig NODE 25 length 69837 cov 10.709066 hit #2](#)

[Contig NODE 13 length 165527 cov 10.023307 hit #1](#)

[Contig NODE 7 length 272670 cov 9.299336 hit #1](#)
[Contig NODE 7 length 272670 cov 9.299336 hit #2](#)
[Contig NODE 7 length 272670 cov 9.299336 hit #3](#)
[Contig NODE 7 length 272670 cov 9.299336 hit #4](#)

[Contig NODE 6 length 356231 cov 9.759612 hit #1](#)

BLASTN 2.2.26 [Sep-21-2011]

Reference:

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

Query= CP000965.1
(64,537 letters)

Database: /vol/rast-prod/jobs/697071/rp/573.23855/contigs
128 sequences; 5,874,982 total letters

Searching.....done

Sequences producing significant alignments:	Score	E
	(bits)	Value
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NODE_27_length_62334_cov_15.396226	1.624e+04	0.0
NODE_23_length_71673_cov_15.369161	9898	0.0
NODE_1_length_566821_cov_8.393009	4783	0.0
NODE_42_length_1203_cov_15.188662	2385	0.0
NODE_43_length_1096_cov_31.518060	2173	0.0
NODE_57_length_464_cov_11.741840	920	0.0
NODE_61_length_430_cov_16.871287	852	0.0
NODE_72_length_369_cov_12.644628	731	0.0
NODE_14_length_153665_cov_8.989794	498	e-139
NODE_16_length_96205_cov_11.645944	438	e-121
NODE_3_length_470369_cov_9.494788	363	2e-98
NODE_46_length_1018_cov_16.254770	252	4e-65
NODE_4_length_398729_cov_7.868694	135	7e-30

NODE_32_length_43518_cov_20.448595	80	4e-13
NODE_10_length_222279_cov_9.401747	56	5e-06
NODE_12_length_196820_cov_8.472076	54	2e-05
NODE_11_length_214047_cov_8.768119	54	2e-05
NODE_8_length_247549_cov_9.773464	48	0.001
NODE_22_length_75116_cov_9.737735	46	0.005
NODE_31_length_45171_cov_18.968520	42	0.079
NODE_2_length_478638_cov_9.783182	40	0.31
NODE_37_length_21672_cov_17.473938	38	1.2
NODE_18_length_93281_cov_10.372534	38	1.2
NODE_9_length_237731_cov_8.189807	38	1.2
NODE_5_length_361067_cov_9.330210	38	1.2
NODE_26_length_62505_cov_11.128427	36	4.9
NODE_25_length_69837_cov_10.709066	36	4.9
NODE_13_length_165527_cov_10.023307	36	4.9
NODE_7_length_272670_cov_9.299336	36	4.9
NODE_6_length_356231_cov_9.759612	36	4.9

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Strand = Plus / Plus

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Sbjct: 121 gaaaaacgcagcgaaaaaccatcaaaaaacggttattcgggaatattgaatgcgatgcgtca 180

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 |||
 Sbjct: 48241 gccacattttacaactggaagaaaaagtttggcgcatgggcgtgacagagc 48292

Score = 460 bits (232), Expect = e-127
 Identities = 235/236 (99%)
 Strand = Plus / Plus

Query: 7958 tgatctcctccctgaaaacagtgccaggctaaactgaagtctccggtctttcttccatct 8017
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 Sbjct: 48057 tgatctcctccctgaaaacagtgccaggctaaactgaagtctccggtctttcttccatct 48116

Query: 8018 cacagagaggcacatcgccatgaaaaagaccgctataccgaagaacaaatagcatttgc 8077
 |||
 Sbjct: 48117 cacagagaggcacatcgccatgaaaaagaccgctataccgaagaacagatagcatttgc 48176

Query: 8078 gctgaaacaggccgaaaccggcactcgggtggaggaagtctgcagaaagatgggcatttc 8137

|||||
Sbjct: 48177 gctgaaacaggccgaaaccggcactcgggtggaggaagtctgcagaaagatgggcatttc 48236

Query: 8138 tgaagccacattttacaactggaagaaaaagtttggcggcatgggcgtgacagagc 8193

|||||
Sbjct: 48237 tgaagccacattttacaactggaagaaaaagtttggcggcatgggcgtgacagagc 48292

Score = 44.1 bits (22), Expect = 0.020

Identities = 28/30 (93%)

Strand = Plus / Minus

Query: 26730 tagaaccatcttttataaaaaagatggttcta 26759

|||||
Sbjct: 15683 tagaaccatcttttataaaaaagatggttcta 15654

Score = 40.1 bits (20), Expect = 0.31

Identities = 23/24 (95%)

Strand = Plus / Minus

Query: 59378 tgcgccagcttgaggaagagaatc 59401

|||||
Sbjct: 7222 tgcgccagcttgaggaagagaatc 7199

Score = 40.1 bits (20), Expect = 0.31

Identities = 23/24 (95%)

Strand = Plus / Minus

Query: 8203 tgcgccagcttgaggaagagaatc 8226

|||||
Sbjct: 7222 tgcgccagcttgaggaagagaatc 7199

Score = 40.1 bits (20), Expect = 0.31

Identities = 32/36 (88%)

Strand = Plus / Minus

Query: 38508 ctgcaggtttgctgcttccagtacaggtgtcgtttc 38543

|||||
Sbjct: 24523 ctgcaggtttgccgcttccagcaccggtgtggtttc 24488

Score = 40.1 bits (20), Expect = 0.31

Identities = 32/36 (88%)

Query: 35564 gaaaccacaccggtgctggaagcggcaaacctgcag 35599
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 Sbjct: 27467 gaaacgcacacctgtactggaagcagcaaacctgcag 27432

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Query: 39880 aatacctggccgacattggaagccggtact 39914
          |||||
Sbjct: 23151 aatacctgaccgacattggaggctgggtcgtact 23117
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Query: 34193 agtaccgacccagcctccaatgtcggtcaggatt 34227
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 Sbjct: 28838 agtaccgatccggcttccaatgtcggccaggatt 28804

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 Sbjct: 8193 ccgatcaccttccaagccaagcggcacagggcctccagcgatccgggatcttttggtag 8134

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 Sbjct: 8133 tctctggatcctttatggatcagttattggatctatcctgtggaaaacctactgctgaga 8074

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Sbjct: 8073  aactgctttgctatctatatcctcggcttagggaaagatacctaacgcgagattgagaaga 8014
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Sbjct: 2193 gtctgcagcctttcatccggggaagaattttcttctcccacagtgccttgaattcccat 2134

Query: 6061 gccccccctggagttgcattgcacaaaccctgttaaacacggataacttctttcctgattg 6120

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Query: 6121 cctggggtttggctttcagtgagctcaatgcattccggtaccagctgcataacgccgttca 6180
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Sbjct: 2073 cctggggtttggctttcagtgagctcaatgcattccggtaccagctgcataacgccgttca 2014

Query: 6181 tcatttcggcctttatgaggctaggaccgtcttttttgcggcctcacaggattccttaa 6240
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Sbjct: 2013 tcatttcggcctttatgaggctaggaccgtcttttttgcggcctcacaggattccttaa 1954

Query: 6241 cattgaatccgaatgagcagagaagctggccctgggccttaggccccatctgaaccccc 6300
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Sbjct: 1953 cattgaatccgaatgagcagagaagctggccctgggccttaggccccatctgaaccccc 1894

Query: 6301 ggctatcgacggtaaagcggacgattgcgtaatcccctccctgatcgctggttatgtttc 6360
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Sbjct: 1893 ggctatcgacggtaaagcggacgattgcgtaatcccctccctgatcgctggttatgtttc 1834

Query: 6361 ttaccagcatgctgacaggagccatttgaagccagctgtagatgccaaaacgatttctt 6420
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Sbjct: 1833 ttaccagcatgctgacaggagccatttgaagccagctgtagatgccaaaacgatttctt 1774

Query: 6421 cttttaaaatcatattcaatttactggttctcattttttcatttatgaatatgaaaacat 6480
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Sbjct: 1773 cttttaaaatcatattcaatttactggttctcattttttcatttatgaatatgaaaacat 1714

Query: 6481 aaaaaaaagctctgtaaagccctaatactgtagaaagcagaggtttgtggtttttaactt 6540
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Sbjct: 1713 aaaaaaaagctctgtaaagccctaatactgtagaaagcagaggtttgtggtttttaactt 1654

Query: 6541 gtactcaataaaaaattccggcagcatctgctggttatttcagacaatatggcatcaat 6600
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Sbjct: 1653 gtactcaataaaaaattccggcagcatctgctggttatttcagacaatatggcatcaat 1594

Query: 6601 aatttctggctccgtgatattattgaaccctgcttacgaaccatctctttaacgcactc 6660
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Sbjct: 1593 aatttctggctccgtgatattattgaaccctgcttacgaaccatctctttaacgcactc 1534

Query: 6661 aaaacgtcgggctgttgccgggtcgatgacaaatgtatttagatgcacatcttcacatgc 6720
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Sbjct: 1533 aaaacgtcgggctgttgccgggtcgatgacaaatgtatttagatgcacatcttcacatgc 1474

Query: 6721 gccagacgtctcatttagtttcattttcactctccagatcaggaatgaagtcaaaattgt 6780
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Sbjct: 1473 gccagacgtctcatttagtttcattttcactctccagatcaggaatgaagtcaaaattgt 1414

Query: 6781 acgcaattgctttttcaggtgaatcacccgcgataagttttaaccatgagtaagagtctt 6840
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Sbjct: 1413 acgcaattgctttttcaggtgaatcacccgcgataagttttaaccatgagtaagagtctt 1354

Query: 6841 gctgattaagaaaaataacgagataaccttcgtcagcactgtttcgctccttaataaaatt 6900
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Sbjct: 1353 gctgattaagaaaaataacgagataaccttcgtcagcactgtttcgctccttaataaaatt 1294

Query: 6901 caatctcagtatccatgccaaaaccaaagggccatgtattacgcgcgactgttctggaa 6960
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Sbjct: 1293 caatctcagtatccatgccaaaaccaaagggccatgtattacgcgcgactgttctggaa 1234

Query: 6961 gcattgagctgaacattgataccacgacatccctcaactctaaatTTTGGTgagcaatga 7020
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Sbjct: 1233 gcattgagctgaacattgataccacgacatccctcaactctaaatTTTGGTgagcaatga 1174

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Sbjct: 1173 aagcaactctTTTaccctccttaacagaagctacaattcgtTTTaaactcgacttgacgt 1114

Query: 7081 tatgtaagcatcacggtaaagcggaccattcacatttagagatcttcctgcatactgatt 7140
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Sbjct: 1113 tatgtaagcatcacggtaaagcggaccattcacatttagagatcttcctgcatactgatt 1054

Query: 7141 atgttcctggaggagatcgccatgcgcaaagcccgattcacctaacaccagatcattgcc 7200
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Sbjct: 1053 atgttcctggaggagatcgccatgcgcaaagcccgattcacctaacaccagatcattgcc 994

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Query: 7261 gctgaggcctcgtagtacaactggaaagcgaagtTCGGCGGTatggaagcctctgatatc 7320
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Sbjct: 933 gctgaggcctcgtagtacaactggaaagcgaagtTCGGCGGTatggaagcctctgatatc 874

Query: 7321 aaaaagatgaaggacctcgtagatgaaaactaccggttgaaacagatgTTTgcggacctg 7380
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Sbjct: 873 aaaaagatgaaggacctcgtagatgaaaactaccggttgaaacagatgTTTgcggacctg 814

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Sbjct: 573 tttcaggtgctgcgcaggcagggcaaaagctggaaccataagcgcgttcaccggatttac 514

Query: 7681 tgcctgctgaaactgaattTTTcgccgtaagggaaaacagcgcctgccagtgtgtaatccg 7740
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Query: 7741 gctccgctggcgacgccagaggcgatgaaccagagctggtccatcgattatatgcacgat 7800
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 Sbjct: 453 gctccgctggcgacgccagaggcgatgaaccagagctggtccatcgattatatgcacgat 394

Query: 7801 gcgctgggtgtgcggcagacgcttccggaccttcaacgtggtggatgattttaaccgcgaa 7860
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 Sbjct: 393 gcgctgggtgtgcggcagacgcttccggaccttcaacgtggtggatgattttaaccgcgaa 334

Query: 7861 gcactggcgatcgaaattgacctgaatataacggcgagcgccccacgaatccctgaata 7920
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 Sbjct: 333 gcactggcgatcgaaattgacctgaatataacggcgagcgccccacgaatccctgaata 274

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 Sbjct: 273 atatgacaccggaagagtaccgactgatggctgaaactgatctcctccctgaaaacagtg 214

Query: 7981 ccaggctaaactgaagtctccggtcttttcttccatctcacagagaggcacatcgccatga 8040
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 Sbjct: 213 ccaggctaaactgaagtctccggtcttttcttccatctcacagagaggcacatcgccatga 154

Query: 8041 aaaagaccgctataccgaagaacaaatagcatttgcgctgaaacaggccgaaaccggca 8100
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 Sbjct: 153 aaaagaccgctataccgaagaacaaatagcatttgcgctgaaacaggccgaaaccggca 94

Query: 8101 ctcgggtggaggaagtctgcagaaagatgggcatttctgaagccacattttacaactgga 8160
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 Sbjct: 93 ctcgggtggaggaagtctgcagaaagatgggcatttctgaagccacattttacaactgga 34

Query: 8161 agaaaaagtttggcggcatgggcgtgacagagc 8193
 ||||||||||||||||||||||||||||||||
 Sbjct: 33 agaaaaagtttggcggcatgggcgtgacagagc 1

Score = 460 bits (232), Expect = e-127
 Identities = 235/236 (99%)
 Strand = Plus / Minus

Query: 59133 tgatctcctccctgaaaacagtgccaggctaaactgaagtctccggtcttttcttccatct 59192
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 236 tgatctcctccctgaaaacagtgccaggctaaactgaagtctccggtcttttcttccatct 177

Query: 59193 cacagagaggcacatcgccatgaaaaagaccgctataccgaagaacagatagcatttgc 59252
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 176 cacagagaggcacatcgccatgaaaaagaccgctataccgaagaacaaatagcatttgc 117

Query: 59253 gctgaaacaggccgaaaccggcactcgggtggaggaagtctgcagaaagatgggcatttc 59312
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 116 gctgaaacaggccgaaaccggcactcgggtggaggaagtctgcagaaagatgggcatttc 57

Query: 59313 tgaagccacattttacaactggaagaaaaagtttggcggcatgggcgtgacagagc 59368
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 56 tgaagccacattttacaactggaagaaaaagtttggcggcatgggcgtgacagagc 1

Score = 44.1 bits (22), Expect = 0.020
Identities = 31/34 (91%)
Strand = Plus / Minus

Query: 9194 aacgggtc gatgcaacattattcttaatacaagg 9227
 |||||
Sbjct: 25563 aacgggtc gatgcaacgctatccttaatacaagg 25530

Score = 42.1 bits (21), Expect = 0.079
Identities = 27/29 (93%)
Strand = Plus / Plus

Query: 60394 attttcaatatccaaactgaccccgacaa 60422
 |||||
Sbjct: 25145 attttcgatatccaaactgacccctacaa 25173

>NODE_23_length_71673_cov_15.369161
 Length = 71673

Score = 9898 bits (4993), Expect = 0.0
Identities = 4993/4993 (100%)
Strand = Plus / Plus

Query: 59545 gatgcg gactgctgatgcagagcagaaccgtttaccactggcagagccggcggggatgac 59604
 |||||
Sbjct: 1 gatgcg gactgctgatgcagagcagaaccgtttaccactggcagagccggcggggatgac 60

Query: 59605 gggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttgcccg 59664
 |||||
Sbjct: 61 gggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttgcccg 120

Query: 59665 gtattcatattcagttgcggcggaaggctggcctgttaaccacaagaaaacacaccgga 59724
 |||||
Sbjct: 121 gtattcatattcagttgcggcggaaggctggcctgttaaccacaagaaaacacaccgga 180

Query: 59725 tttactgtctggaagtccctcaacctgcgcaaaaagcgccccgcaggcatgtcagtgag 59784
 |||||
Sbjct: 181 tttactgtctggaagtccctcaacctgcgcaaaaagcgccccgcaggcatgtcagtgag 240

Query: 59785 cacatcgtcagcaacgtccggctcctgaccgggtgtcgatcagtgctggagtatggatttcg 59844
 |||||
Sbjct: 241 cacatcgtcagcaacgtccggctcctgaccgggtgtcgatcagtgctggagtatggatttcg 300

Query: 59845 tgtcggataacctgtttaacggacgacgtttccgggcgctgactgtagtgagataatttta 59904
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Sbjct: 301 tgtcggataacctgtttaacggacgacgtttccgggcgctgactgtagtgagataatttta 360

Query: 59905 gtcgggagtggtggcgatccatgccggaaagtcgctgaaaggtgaggatgtgggtcggtg 59964

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Sbjct:	421	tgatggaaaggttgccgggtgccgggcaagcgctgccggtacgtattcagacagataacg	480
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Sbjct:	841	tcaggggtcaattttcaatatccaaactgaccccgacaacaccatagcacggacagttaac	900
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Query:	60505	cgggcaacgaccgagacggttattccgggttcaaaaatcttctgaaccatgtcgaattct	60564
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Query:	60565	gcctgaaagtacgccgtctgtgcttctctggacctaaaacattaatcattcggactctaa	60624
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Query:	60625	tgattagcctaaaaactagattatgactatcacttatttaagtgatataagctgtctgg	60684
Sbjct:	1081	tgattagcctaaaaactagattatgactatcacttatttaagtgatataagctgtctgg	1140
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Sbjct:	1141	agatctaggggggagtttacaagttgcaacggtagtgtatatattctttcagctaattca	1200

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 Sbjct: 1261 ccaattgaaccaaggcagtcgcagttatgtagttacccttctgttcgagcggttggtcgg 1320

Query: 60865 tgctcataatagggttttaactgtatttgaaattaatactgacagggtaccgtaaatttga 60924
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 Sbjct: 1321 tgctcataatagggttttaactgtatttgaaattaatactgacagggtaccgtaaatttga 1380

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 Sbjct: 1381 cttctgatatttgcaaagcctgtcttttgttcccgaactgaatgaacacgggacgacttt 1440

Query: 60985 ctttaaggataaaaactatgcaacgttgtctgcgggtagcgtggggaattgtgtttatttt 61044
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Query: 61225 taatgaaatgccgtggggcggaggatttggcgtatccagatataacgaagaggggaactg 61284
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 Sbjct: 1681 taatgaaatgccgtggggcggaggatttggcgtatccagatataacgaagaggggaactg 1740

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 Sbjct: 2581 tcgcgctttgaccactttttcacgcttgagccagtcggcgaccagcgggtcgctgaaca 2640

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Query: 62545 ccacaaaaaacagcggcgtggcgatagtcgaaataaacgtcaaaaacccgaggatccagt 62604
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 Sbjct: 3001 ccacaaaaaacagcggcgtggcgatagtcgaaataaacgtcaaaaacccgaggatccagt 3060

Query: 62605 gatagtcataatcatagctatcccagggtgttgtaaatggggaagaaagtcaccgccgtca 62664
 |||||
 Sbjct: 3061 gatagtcataatcatagctatcccagggtgttgtaaatggggaagaaagtcaccgccgtca 3120

Query: 62665 tgcattcccagcgttttaataatatattaaccgggtactgttcatggttgctcgcttcataatc 62724
 |||||
 Sbjct: 3121 tgcattcccagcgttttaataatatattaaccgggtactgttcatggttgctcgcttcataatc 3180

Query: 62725 cttagagcatatcctattagactattttatttgctattttgctcctgggcagtgtctcacg 62784
 |||||
 Sbjct: 3181 cttagagcatatcctattagactattttatttgctattttgctcctgggcagtgtctcacg 3240

Query: 62785 cccctcacgtactgcgtgtacgctccggttgttgcgcgctgtccgagtccaaactggctg 62844
 |||||
 Sbjct: 3241 cccctcacgtactgcgtgtacgctccggttgttgcgcgctgtccgagtccaaactggctg 3300

Query: 62845 cctcaatatgcgcctgggtgggataatctctgattgtggaaacaggcgtaaatactaggca 62904
 |||||
 Sbjct: 3301 cctcaatatgcgcctgggtgggataatctctgattgtggaaacaggcgtaaatactaggca 3360

Query: 62905 gaaccagcagagtcagaatagtagcaaaacccagaccaaacatgatcacaaccgccatgc 62964
 |||||
 Sbjct: 3361 gaaccagcagagtcagaatagtagcaaaacccagaccaaacatgatcacaaccgccatgc 3420

Query: 62965 tctggaagaaaacgtccagtaatagcggcgccaggccgagcacggtggtaaacgccgtca 63024
 |||||
 Sbjct: 3421 tctggaagaaaacgtccagtaatagcggcgccaggccgagcacggtggtaaacgccgtca 3480

Query: 63025 gcaggatcgggcgagacgcgacgtggcgccatagataatagcctcctggtgcccctttct 63084
 |||||
 Sbjct: 3481 gcaggatcgggcgagacgcgacgtggcgccatagataatagcctcctggtgcccctttct 3540

Query: 63085 ccttcttctgctgttcaatttcttctaccagcacgatgccgttacggatcagcatgccgc 63144
 |||||
 Sbjct: 3541 ccttcttctgctgttcaatttcttctaccagcacgatgccgttacggatcagcatgccgc 3600

Query: 63145 tcaggctcagcaagccgattaacgccataaagccaaaggggatgccggttaagcaagaagc 63204
 |||||
 Sbjct: 3601 tcaggctcagcaagccgattaacgccataaagccaaaggggatgccggttaagcaagaagc 3660

Query: 63205 ccggcggttacgccaatcagtgccagcggtatgggtcagccagatagccaccgcgtttttca 63264
 |||||

Sbjct: 3661 ccggcgttacgccaatcagtgccagcggtatggtcagccagatagccaccgcgtttttca 3720

Query: 63265 gtgagctaaacatcagcacggtaattacaaacatcaacagtaacccagcggcagtgtag 63324

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Sbjct: 3721 gtgagctaaacatcagcacggtaattacaaacatcaacagtaacccagcggcagtgtag 3780

Query: 63325 tgaacagaccctgctgcgcctcgctggagttctctgcatcgccgccccactcaatgctgt 63384

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Sbjct: 3781 tgaacagaccctgctgcgcctcgctggagttctctgcatcgccgccccactcaatgctgt 3840

Query: 63385 atccgtgcggcaaagcgaacgcatcaatctgcggttcacacgggacaggatatccccag 63444

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Sbjct: 3841 atccgtgcggcaaagcgaacgcatcaatctgcggttcacacgggacaggatatccccag 3900

Query: 63445 ccgtctggttgctcagcggatcgggatcgggtctgcaccgtcaacacgcggctgcggtcgc 63504

|||||

Sbjct: 3901 ccgtctggttgctcagcggatcgggatcgggtctgcaccgtcaacacgcggctgcggtcgc 3960

Query: 63505 ggcgcaggataagcggatcttcccattcgaggtgaaagccgctgaccacgttactgagcg 63564

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Sbjct: 3961 ggcgcaggataagcggatcttcccattcgaggtgaaagccgctgaccacgttactgagcg 4020

Query: 63565 gaatatactgctggcggtctgggtccagaccagcacgttattcaggtgattcgcgtcct 63624

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Sbjct: 4021 gaatatactgctggcggtctgggtccagaccagcacgttattcaggtgattcgcgtcct 4080

Query: 63625 ggcgctcagcggccggggggcgacgacgactggcagcaggtcggctccctcgcggtaca 63684

|||||

Sbjct: 4081 ggcgctcagcggccggggggcgacgacgactggcagcaggtcggctccctcgcggtaca 4140

Query: 63685 agccagcgcggctgccggaaaagttcatctccagcgcgttatcaatatcctgtttatcaa 63744

|||||

Sbjct: 4141 agccagcgcggctgccggaaaagttcatctccagcgcgttatcaatatcctgtttatcaa 4200

Query: 63745 cccccagctcgcgcccaagcgcggtggagtactgcgggcggataactttgctgcggtttt 63804

|||||

Sbjct: 4201 cccccagctcgcgcccaagcgcggtggagtactgcgggcggataactttgctgcggtttt 4260

Query: 63805 gccagtcattccggacaccatcggtagccggatctgcagagagaatatcgccaacctggc 63864

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Sbjct: 4261 gccagtcattccggacaccatcggtagccggatctgcagagagaatatcgccaacctggc 4320

Query: 63865 tggcgagcaggcgcaggcggctcggggtccggacctttaatccgcacctcaatggcgctgt 63924

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Sbjct: 4321 tggcgagcaggcgcaggcggctcggggtccggacctttaatccgcacctcaatggcgctgt 4380

Query: 63925 cgccggaagggccgaacatcacgcgtttcgtgctggcgtttacctgcggatagttgcgtg 63984

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Sbjct: 4381 cgccggaagggccgaacatcacgcgtttcgtgctggcgtttacctgcggatagttgcgtg 4440

Query: 63985 caatatagcgatcaacatgctgcgttagggctgcaattttgcgctgatcgtccatgcgca 64044

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Sbjct: 4441 caatatagcgatcaacatgctgcgttagggctgcaattttgcgctgatcgtccatgcgca 4500

Query: 64045 ccatgatttgcgcatagttgctgtactgccgttgccgctataggtgaggataaaccgca 64104

Sbjct: 4501 |||||
 ccatgatttgcgcatagttgctgtactgccgttgccgctataggtgaggataaacgcga 4560

Query: 64105 tgctgccctggccaacggtggccatggtggtgaccacccgggctggccgtaattgtgg 64164
 |||||
 Sbjct: 4561 tgctgccctggccaacggtggccatggtggtgaccacccgggctggccgtaattgtgg 4620

Query: 64165 tctcaatatcgctggtcatcttttcggtggtcgcgatatcggtaccgtacgggagccaga 64224
 |||||
 Sbjct: 4621 tctcaatatcgctggtcatcttttcggtggtcgcgatatcggtaccgtacgggagccaga 4680

Query: 64225 gatcgacaaagaaaatcggcgtatgtgacgaggggaaaaagttttgccgcaccgatccaa 64284
 |||||
 Sbjct: 4681 gatcgacaaagaaaatcggcgtatgtgacgaggggaaaaagttttgccgcaccgatccaa 4740

Query: 64285 acccccagatagcggcgccaacagcgcagccatgacggttagggttagggttttgcgca 64344
 |||||
 Sbjct: 4741 acccccagatagcggcgccaacagcgcagccatgacggttagggttagggttttgcgca 4800

Query: 64345 gcagaagggctcgcagagcctgctgatacaggcggtaaaagcgcccgccgtacgggtag 64404
 |||||
 Sbjct: 4801 gcagaagggctcgcagagcctgctgatacaggcggtaaaagcgcccgccgtacgggtag 4860

Query: 64405 cgttggcctgcgctaccggctgcgattgatttttaaacagccaccatttgattagcaccg 64464
 |||||
 Sbjct: 4861 cgttggcctgcgctaccggctgcgattgatttttaaacagccaccatttgattagcaccg 4920

Query: 64465 gcgtgatggttagcgcagagaaccagctcagcatgagcgaaatcagcagcacctggaaca 64524
 |||||
 Sbjct: 4921 gcgtgatggttagcgcagagaaccagctcagcatgagcgaaatcagcagcacctggaaca 4980

Query: 64525 gcgatttacagta 64537
 |||||
 Sbjct: 4981 gcgatttacagta 4993

Score = 1497 bits (755), Expect = 0.0
 Identities = 788/799 (98%)
 Strand = Plus / Plus

Query: 8370 gatgcggactgctgatgcagagcagaaccggtttaccactggcagagccggcgggatgatc 8429
 |||||
 Sbjct: 1 gatgcggactgctgatgcagagcagaaccggtttaccactggcagagccggcgggatgatc 60

Query: 8430 gggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttggccgc 8489
 |||||
 Sbjct: 61 gggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttggccgc 120

Query: 8490 gtattcacattcagctgcggcggggaaggctggcctgttaaccacaagaaaacacaccgga 8549
 |||||
 Sbjct: 121 gtattcatattcagttgcggcggggaaggctggcctgttaaccacaagaaaacacaccgga 180

Query: 8550 ttctactgtctggaaggcctcaacctgcgcaaaaagcgccccgcaggcatgtcagtgcag 8609
 |||||

Query: 11197 gaaaaacgcagcgaaaaccatcaaaaaacggtta 11230
||||||| |||||||||
Sbjct: 71553 gaaaaacacagcgaaaaccatcaaaaaacggtta 71520

Score = 210 bits (106), Expect = 1e-52
Identities = 556/706 (78%)
Strand = Plus / Minus

Query: 42397 atgaaatcagatgttcaacttaatcttagagccaaggaatcacagcgggcgctcattgac 42456
||||||| ||||||| || || ||||| || || || ||| ||||| ||||| ||
Sbjct: 49892 atgaaatcagatgttcaactcaacctaagagctaaagagtctcagagggcactcatcgat 49833

Query: 42457 gctgctgcggaaattcttcacaaatcacgaacagacttcatcctggaaatggcctgtcag 42516
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Sbjct: 49832 gccgctgcagaaatccttcataaatcgcgaaaccgacttcattcttgagatggcttgcaag 49773

Query: 42517 gccgctgagaatgtgatcctcgatcgccgggtctttaattttaacgatgaacaatatgcc 42576
|| || ||||| ||||||| ||||| || || || || || || ||||| |||||
Sbjct: 49772 gctgcagagaacgtgatccttgatcgctcgtgttttcaattttaacgacgaacagtatgct 49713

Query: 42577 gaattcatcgacatgcttgatgcccctgttgagatgatcctgccatagataaactgctg 42636
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Sbjct: 49712 gagttcatcgatatgctcaatgcaccagtcgaggatgagcttgccattaataaactactg 49653

Query: 42637 gcaaggaaacctcagtgggacgtgtaacagtaccagaacctttatccagcttttatcagg 42696
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Sbjct: 49652 gcaaggaaacctcagtgggacgtataactgcgcccagccgttatccagcgcccatcaac 49593

Query: 42697 tggcggaaattcgtttgcggtgaaactgttctggatgactggttaaagcagaaaggcctca 42756
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Sbjct: 49592 tggcagagttcgtcagtggggaaatggtactcgatgaatggttaaacagagaagttaa 49533

Query: 42757 aaaaccaggctctcggatcgcccagaacgtttgtagtggtgtaaaaaagacacgaaacaag 42816
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Sbjct: 49532 aaaatcaggcccttgccgctgcacgaacgttcgttggttgcaagacgggtacgaagcaag 49473

Query: 42817 tagccggtttttactctctggccaccgggagcgtcaaccatacagaagcgacaggcaatc 42876
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Sbjct: 49472 taactggtttttactctctggccaccggttagcgttaaccatacgaagcgacaggtagtc 49413

Query: 42877 ttcggcgtaacatgcccgatcccatccctgtcattataacttgccgctcttgctgtcgatc 42936
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Sbjct: 49412 ttcggcgtaacatgccagatcctataaccggtgattattctcgtcgcctagcggtagatg 49353

Query: 42937 tctctttccgcggaaaaagggcttggcgctgatttacttcatgatgcagtgccttcgttgct 42996
| || || | ||||||| ||||||| ||||||| ||||| || || || || || ||
Sbjct: 49352 tttcattgcacggaaggggttggcgccgatttacttcacgatgcggttctacgctggt 49293

Query: 42997 atcggggttgccgagaatattggtgtacgtgcaatcatggttcatgcactcaccgaagaag 43056
|||| || || ||||||| || || ||||| || || || || || || ||||| |||||
Sbjct: 49292 atcgcgtagctgagaatattggcggttcgtgcgataatggttcacgcgcttactgaagaag 49233

Identities = 51/53 (96%)

Identities = 90/109 (82%)

Identities = 53/63 (84%), Gaps = 1/63 (1%)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

— | | |

Identities = 18/18 (100%)

1 1 99 9

>NODE_1_length_566821_cov_8.393009

Length = 566821

Score = 4783 bits (2413), Expect = 0.0

Identities = 3211/3468 (92%), Gaps = 18/3468 (0%)

Strand = Plus / Plus

Query: 24629 tgggggtatgtga-ttcaatatgaaaggcgaaacgcgccggaggcgtggctttgtcgctc 24687
||||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 53360 tgggggtatgcgagttcaacatgaagggcgaaacgcgccggaggcgtggctttatcgctc 53419

Query: 24688 ggcaggctgaaaaagctgacgaactgtatacttttctcggcacgagcaggagatcgatg 24747
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 53420 agcaggctgaaaaagctgacgatctgtatactttcctcggcacgagcaggagattgatg 53479

Query: 24748 gtgaaaaattcagagtgatgaatgtggattacacggcaatcattgccgatttggtgaccg 24807
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 53480 gcgaaaaattcagagtgatgaatgtggattacacggcaatcatcgccgatttggtgaccg 53539

Query: 24808 tggtagaggatttgattaggcgagttgacgcactagaaagttgaggagcataaaaaatcc 24867
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 53540 tggtagaggatttgcttaggcgagttgacgccctagaaagttgaggagcataaaaaatcc 53599

Query: 24868 cccggaggcacttgccgggggcaactgaaacgacattaattgctgtgtacatcacagaat 24927
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 53600 cccggaggcacttgccgggggcaactgaaacgacattaattgctgtgtacatcacagaat 53659

Query: 24928 aatttgcagtaaacgataagtaagttcaagtaaagttttactggtcagatggtgtgtgt 24987
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Sbjct: 53660 aatttgaagtaaacgataagtaagttcaagtaaacttctactggtcagatggtgtgtcgt 53719

Query: 24988 tttttaataacctacccaaattaataatgcagtagttctaaattccactgggaattgatt 25047
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Sbjct: 53720 tttttaataacctacccaaattaataatgcaatagtgtctaaatcctgttggttttcatg 53779

Query: 25048 ttttaagaatataaccctaaagtattactgtgcatcagatataaatcgtgcgaatagattc 25107
||||| || ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 53780 ttttaaggatttaaaactaaagtattactttccatcagatagaaatcataaagatagattc 53839

Query: 25108 aaaaaaatggatgccaaatgttattattgatacgtttatcattaattgaagtgcaatctt 25167
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 53840 agggtaatggatgctaaatattattattgacacgtttataattaattgaggtgcaatctt 53899

Query: 25168 gtaattttcacatccgtgttataactttgtaatgcaggaaggttttatcttgttatttag 25227
||||||| || || ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 53900 gtaattttacacccatgttataaatttgtaatgcagggcggtttatcttgttatttag 53959

Query: 25228 tgggttgaagtgatggcagttcttagtgattttataatgggctttctatgttgacaaattt 25287
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Sbjct: 53960 tgggttgtagtgatatcggtccttagtgatttttaataaggctttctatgttaacaaattt 54019

Query: 25288 cccgatgaaaaatacatatctgatagaaattcatcgttcataaagcgagtatatattttt 25347
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 54020 cccgatgaaaaatacatttctgatagaaattcatcgtttattaaacgagtatatattttt 54079

Query:	25348	acgtcagattggtggtcggttcctttgctttcttccctatatattcagtcctccaggagcagtc	25407
Sbjct:	54080	acgtcagataggtgtcggttcctttgctttctccctatatatactctgtcctccaggagcagtc	54139
Query:	25408	acatcaaaaaataacaatagccttggttaattctgaatgcactcacctggccatcggttgc	25467
Sbjct:	54140	acatcaaaaaataacaatagccttggttaattcttaatgcactcatctggccatcggttgc	54199
Query:	25468	ttatcttgcaagcatgatgtcgaaggatatgctgagtactgaaaaaagaatatgatact	25527
Sbjct:	54200	ttatctggcaagcatgatgtcgaaggatatgctgggtactgaaaaaagaatatgatact	54259
Query:	25528	tgattcattctgggctggaatctggatagccgtaatgcaagttagtccaatcccatcatt	25587
Sbjct:	54260	tgattcattctgggctggtatctggatagccgtaatgcaagttagtccaatttcattcatt	54319
Query:	25588	attcataatctcagttcaaatagctgatcgctatgctgctggtggatggaaaattttaaa	25647
Sbjct:	54320	attcataatttcagttcaaatagctgatcgctatgctgctggtggatggaaaattttaaa	54379
Query:	25648	accagcattaatgtggatgatgattggtttcctgacagtttggttagcaaatgatttcaa	25707
Sbjct:	54380	accagcattaacgtgtatgatgattagtttcctgacagtttggttagcaaatgatttcag	54439
Query:	25708	atatactatagaattcagtagccgaacggatttgctttctttacccttggcgacctgtta	25767
Sbjct:	54440	atatacgattgaattcagtagccgaacggatttgctttctttacccttggcaacctgcta	54499
Query:	25768	tcccatagtactgagtattgtttcaaggcacttatctataaagttgaggaaaagaaggga	25827
Sbjct:	54500	tcccattgtattgagtgtagtttcaagacatttatctataaagttgaggaaaagaaggga	54559
Query:	25828	gttactggaaaaacaggctctgatggatcctggcttagatctgccaatcgccgtttttt	25887
Sbjct:	54560	gttactggaaaaacaggctctgatggatcctggcttagatctgccaatcgccgtttttt	54619
Query:	25888	tgagcaaaaaatggaaagtgcttttcgtgcaacgcgtaaaaagagaattcattcttatct	25947
Sbjct:	54620	tgagcagaaaaatggaaagtgcttttcgtgcaacgcgtaaaaagagaacgcattcttatct	54679
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Sbjct:	54680	tatgctaattgatgttgataattttaaaaaaattaatgataacctatgggcatgaagtagg	54739
Query:	26008	tgatgcggtgctatctcgatatatcaacaatattacgagagtgcgctggcgagaaggacgt	26067
Sbjct:	54740	tgatgcggtgttatctcgatatatcatcaatattacgagactgcgctggcgagaaggacgt	54799
Query:	26068	accagcaagatttggtggcgatgagttggctattattgttaataatagtaataagcaagct	26127
Sbjct:	54800	accagcaagatttggtggcgatgagttggctattattgttaacaatagtaataataagct	54859
Query:	26128	tgttatagctatggttcatataattcaggaaaaaattaaagatctttcattgccttctca	26187

Sbjct: 54860 tgttatagctatggttcataataattcagaaaaaaattaaagatctttcattaccttctca 54919

Query: 26248 catcgagtgatcaaagaggctgatgaaatgctatatgaagttaaactaacgggaagaa 26307

Query: 26308 tggatattgcatgccgaataattgaagatgaaatgatttcttttctcatga-tttataca 26366

Query: 26367 tataaatttttaagatagtttattatcggcattgccaatacggataaatttcctcggaac 26426

Query: 26427 cacagac-ccctctcaactaacgtttgatacataccactaaagtattgtcattccataac 26485

Query: 26486 aatatgattttattcaagtttat-attgaaatcatgtttctttttttccatttaagtc 26544

Query: 26545 atttgatttgaataatcgatcaatttaagaaatgtgataggtttctcctattgttcgatc 26604

Query: 26605 gttatcgatcatttttaactattttcctttgatttctaaatatgacaagattaggattat 26664

Query: 26665 tcctagttccggtgtttttttaatgataaagaacagtatggaaatagattcctgtagatt 26724

Query: 26725 tgttttagaaccatcttttaaaaaagatggttctattcattcttgggaaattctcacgaa 26784

Query: 26785 aaatgttaaaaaaaaggactgcaatgattaccttgctaataaagtgggttttgtttcac 26844

Query: 26845 ttcattaagcgcataaagaaaaaatcgatgtgttcagaaacagatattgacaattgaaaa 26904

Query: 26905 gcttgatgcatcagaattgaagttcaagccagtttcggttgaaatgttgacagttttattag 26964

Query: 26965 cgattgtatTTTgaacgataaatatattggtgattacttaaaaaaccaaaaaaacattgc 27024

Sbjct: 55699 |||||cgattgtat|tttgaacgataaatatattggtgattactt|aaaaaaccaaaaaaacattgc 55758

Query: 27025 ttttgagattaacgagcattttcatgaattcaataactaaatgctgtatgggtgacttaaa 27084
 |||||

Sbjct: 55759 ttttgagattaacgagcattttcatgaattcaataactaaatgctctatgggtgacttaaa 55818

Query: 27085 gtgtctttcaaagtgtgtccagtatggctggatgattttgggagtggttaacaagctt 27144
 |||||

Sbjct: 55819 gtgtctttcaaagtgtgtccagtatggctggatgattttgggagcggttaacaagctt 55878

Query: 27145 aacagttatagatatgtttgattttgaatgtataaaaattgataaagattacttctggga 27204
 |||||

Sbjct: 55879 aacaattatagatatgtttaattttgaatgtataaaaattgataaagattatttctggga 55938

Query: 27205 aatacagagt|gagagcgaattctt|taaaagaataaaataaaatcatactgcaattt 27264
 |||||

Sbjct: 55939 aatacagagt|gagagcgaattctt|taacgtaataaaataaagtaaaatcatactgcaattt 55998

Query: 27265 cgtgattgttgaggagttgagacaatagaacaaaaataaagtacattctgttgttga 27324
 |||||

Sbjct: 55999 cgtgattgttgaggagttgagacaatagaacaaaaataaagtacattctgttgttga 56058

Query: 27325 ttg|cgcttgccaggaaggttg|ggatgagtgattactattatgttgagattt|aaaataa 27384
 |||||

Sbjct: 56059 ttg|cgcttgccaggaaggttg|ggatgagtgattactattatattgagattt|aaaataa 56118

Query: 27385 atgacaacaaaagatgataaatgtccattttgtggtgcaattttaattaatgaggaccgc 27444
 |||||

Sbjct: 56119 atgacaacaaaagatgataaatgtccattttgtggtgcaaattttaattaatgaggaccgc 56178

Query: 27445 tgtcacagttgcatgcatttaagattaaagggttatgtatcaagagacgcacgcaagaca 27504
 |||||

Sbjct: 56179 tgccacagttgcatgcatttcagattaaagggttatgtatcaagagacgctcgcaaaaga 56238

Query: 27505 attaat|ttgat|ctatctgcacatctttactggtagcgctctttgggatcttggtt|gtg 27564
 |||||

Sbjct: 56239 attaat|ttgat|ctatcggtacgtctttactggtagcgctctttggaatcttagtt|gtg 56298

Query: 27565 tttctggtatctttcggtatcgggacatatattgctatcattgtgttctctcttatttta 27624
 |||||

Sbjct: 56299 tttctggtatctttcggtatcggtgcatatattactataattg|cgctttctctt|gttttt 56358

Query: 27625 tattttattatgaaaaggattctgaatataaaagaagaaaaaaagggaagatggtttgg 27684
 |||||

Sbjct: 56359 tattttattatgaaaaggattctgtatgtaaaagaagagaaaaaaagggaagatggtttgg 56418

Query: 27685 aaaagagcaatcattacatggtaggtagtaatt-aaataatataatggcgctgctggttc 27743
 |||||

Sbjct: 56419 aaaagagcaataattacatggtagataattatt|aaaataatattatagtgatggcgcttt 56478

Query: 27744 caatgcaagcctcg|gattccgagggcttttttat----tttct-----tttcaa|atcat 27792
 |||||

Sbjct: 56479 caatcaaagcctcgaatttcgagggcttttttatag|tatttttataatgctttcaaagcat 56538

Query: 27793 gagttataacaccgtaaataatattaacccgactcacagggagtgagtattattggctaata 27852
|| ||| |||| | ||||||||||||||||||||||||||||||||||||
Sbjct: 56539 gaattagaacatccgaaataatattaacccgactcacagggagtgagtattattggctaata 56598

Query: 27853 attcactatccagatgagctgaaagactcaaagccggttatcaaaactgaaaatatacta 27912
|||||||||||||||||||||||||||||||||| ||||||||||| ||||||||||| |||||||||||
Sbjct: 56599 attcactatccagatgagctgaaaaactcaaagccagttatcaaaactgaaaatatacta 56658

Query: 27913 atgaatttcaatagggttagggcttagactaaaaacattaactacgtatcaaaaacacct- 27971
|||||||||||||||||||||||||||||||||| ||||||||||| || ||||||||| |||||
Sbjct: 56659 atgaatttcaatagggttagggcttaggctaaaaacattaaccacatatcaaaaataccta 56718

Query: 27972 tttttctttttaaatcaataagtaatgatgttattagttactactgctgcgccacatgc 28031
|||||||||||||||||||||||||||||||||| ||||||||||| ||||||||||| |||||
Sbjct: 56719 tttttctttttaaatcaataagtaataatgttattagttactactgctgcgccatatgc 56778

Query: 28032 agtgggttcgaagccgcagacctgatcgtcaaaggcatggaaggagcta 28079
|||||||||||||||||||||||||||||||||| |||||||
Sbjct: 56779 agtgggttcgaagccgcagacctgatcgtcaaaggcatggaaggcgcta 56826

Score = 170 bits (86), Expect = 1e-40
Identities = 107/114 (93%)
Strand = Plus / Plus

Query: 28067 atggaaggagctaaactactgaaatgtagcgagtttgtcgacgagattatcgcgaaacatg 28126
||||||| ||||||||| |||||||||||||||||||| ||||| ||||||||||| |||||||||
Sbjct: 56865 atggaaggcgctaaactgctgaaatgtagcgagtttggcgacgcgattatcgcgaaacatg 56924

Query: 28127 taatcccattggtggattaagtaaaagtgggagccgatgggctcccgtttttt 28180
||||||| ||||||||| ||||||||| ||||||||| ||||||||| ||||||||| |||||||||
Sbjct: 56925 taatcccgttggtggattaagtaaaagcgggagccgatgggctcccgtttttt 56978

Score = 117 bits (59), Expect = 2e-24
Identities = 62/63 (98%)
Strand = Plus / Plus

Query: 28017 tgctgcgccacatgcagtggttcgaagccgcagacctgatcgtcaaaggcatggaaggag 28076
|||||||||||||||||||||||||||||||||| ||||||||||| ||||||||||| |||||||||
Sbjct: 20585 tgctgcgccacatgcagtggttcgaagccgcagacctgatcgtcaaaggcatggaaggcg 20644

Query: 28077 cta 28079
|||
Sbjct: 20645 cta 20647

Score = 101 bits (51), Expect = 1e-19
Identities = 54/55 (98%)
Strand = Plus / Plus

Query: 23011 aatatcacgaacataactactgacgcgctttacaccaccatgaccaccggtatggg 23065
|||||
Sbjct: 45017 aatatcacgaacataactactgatgcgctttacaccaccatgaccaccggtatggg 45071

Score = 97.6 bits (49), Expect = 2e-18
Identities = 61/65 (93%)
Strand = Plus / Plus

Query: 28067 atggaaggagctaaactactgaaatgtagcgagtttgtcgacgagattatcgcgaaacatg 28126
|||||
Sbjct: 20686 atggaaggcgctaaactgctgaaatgtagcgagtttggcgacgcgattatcgcgaaacatg 20745

Query: 28127 taatc 28131
|||||
Sbjct: 20746 taatc 20750

Score = 83.8 bits (42), Expect = 2e-14
Identities = 66/74 (89%)
Strand = Plus / Plus

Query: 24506 actgacgcatggattttccgggctggcggcacgatttccaccggttaagggtgacgtcctg 24565
|||||
Sbjct: 53224 actgatgcatggatcttccgcgctggcggcaccatttccactggcaaaggggacgtcctg 53283

Query: 24566 accaccggctcaga 24579
|||||
Sbjct: 53284 accaccggctcaga 53297

Score = 77.8 bits (39), Expect = 1e-12
Identities = 54/59 (91%)
Strand = Plus / Plus

Query: 62787 cctcacgtactgcgtgtacgctccggttggtgcgcgctgtccgagtcctcactgggtgc 62845
|||||
Sbjct: 493176 cctcacgtactacgtgtacgctccggtttctgcgcgctgtccgtgttcaaactgggtgc 493234

Score = 50.1 bits (25), Expect = 3e-04
Identities = 25/25 (100%)
Strand = Plus / Plus

Query: 28329 ttgatctgaacgagttgctcgtaa 28353
|||||
Sbjct: 555844 ttgatctgaacgagttgctcgtaa 555868

Score = 46.1 bits (23), Expect = 0.005
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 28331 gatctgaacgagttgctcgtaa 28353
|||||
Sbjct: 259538 gatctgaacgagttgctcgtaa 259560

Score = 44.1 bits (22), Expect = 0.020
Identities = 28/30 (93%)
Strand = Plus / Minus

Query: 26730 tagaaccatcttttaaaaaagatggttcta 26759
|||||
Sbjct: 55493 tagaaccatcttttttaaaagatggttcta 55464

Score = 42.1 bits (21), Expect = 0.079
Identities = 21/21 (100%)
Strand = Plus / Minus

Query: 29126 caacgtatgaatccatgcgcc 29146
|||||
Sbjct: 454792 caacgtatgaatccatgcgcc 454772

Score = 40.1 bits (20), Expect = 0.31
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 26606 ttatcgatcattttaaactatttt 26629
|||||
Sbjct: 74294 ttatcgatcactttaaactatttt 74317

Score = 40.1 bits (20), Expect = 0.31
Identities = 20/20 (100%)
Strand = Plus / Plus

Query: 27185 gataaagattacttctggga 27204
|||||
Sbjct: 74867 gataaagattacttctggga 74886

```
Query: 63132   atcagcatgccgctcaggc 63150
          |||||
Sbjct: 291970  atcagcatgccgctcaggc 291952
```

Query: 58881 caggacattgccgtctggctgca 58903
 |||||
 Sbjct: 340043 caggacattgccggtctggctgca 340021

```
Query: 13517      cgataacaatcacatcat 13534
          |||||
Sbjct: 406731    cgataacaatcacatcat 406748
```

Score = 2385 bits (1203), Expect = 0.0
Identities = 1203/1203 (100%)
Strand = Plus / Plus

Query: 9152 tttttgggccagggtcatcgtgtccgctttgtgctgtgagttaacgggtcgatgcaacat 9211
 |||||||
 Sbjct: 121 tttttgggccagggtcatcgtgtccgctttgtgctgtgagttaacgggtcgatgcaacat 180

Query: 9212 tattcttaatcaagggagagtccccctccccctagccttcgcgccgctcagtcacctatcgt 9271

Sbjct: 181	 tattcttaatcaagggagagtagccccctccccctagccttccgcccgtcagtcacctatcgt	240
Query: 9272	accgctggaggcgcggtttctctcacacatttctcgacacgtggcgggtcaaatacggag	9331
Sbjct: 241	 accgctggaggcgcggtttctctcacacatttctcgacacgtggcgggtcaaatacggag	300
Query: 9332	gcgtataggttcatccggaaacgcagcagatcaatcataacaacttcgctctcaatgttt	9391
Sbjct: 301	 gcgtataggttcatccggaaacgcagcagatcaatcataacaacttcgctctcaatgttt	360
Query: 9392	tcgtaagcatgacaatcatatggaataacggcgagcatcatcaacaaactgcgaccaggc	9451
Sbjct: 361	 tcgtaagcatgacaatcatatggaataacggcgagcatcatcaacaaactgcgaccaggc	420
Query: 9452	taacgtgattgcacggtactaccgaagagatgcgggagaaacactggagattccctctc	9511
Sbjct: 421	 taacgtgattgcacggtactaccgaagagatgcgggagaaacactggagattccctctc	480
Query: 9512	ccgattcacgagcgcagggataaaaagcaaaagcaggaatcgcaactcgatggccacgta	9571
Sbjct: 481	 ccgattcacgagcgcagggataaaaagcaaaagcaggaatcgcaactcgatggccacgta	540
Query: 9572	taaaggatcaagactgaagggagacgccgggtataaagctgagccggcgtcaatgacaag	9631
Sbjct: 541	 taaaggatcaagactgaagggagacgccgggtataaagctgagccggcgtcaatgacaag	600
Query: 9632	tcggcactgatttaacagtagtgtgtcatctggcaggccatcagatctcactttctgagc	9691
Sbjct: 601	 tcggcactgatttaacagtagtgtgtcatctggcaggccatcagatctcactttctgagc	660
Query: 9692	attaccggcgattaggcttatcactgggtcacagagataaccaatataaataccgggtcccc	9751
Sbjct: 661	 attaccggcgattaggcttatcactgggtcacagagataaccaatataaataccgggtcccc	720
Query: 9752	agataatttgtaagagtacaaatatccactgagggacctcaacaatcaacagaggaagga	9811
Sbjct: 721	 agataatttgtaagagtacaaatatccactgagggacctcaacaatcaacagaggaagga	780
Query: 9812	gagcaaccggttacgattaaaatcaggcggtacctaatacgccgacgcaccgggtcagcgg	9871
Sbjct: 781	 gagcaaccggttacgattaaaatcaggcggtacctaatacgccgacgcaccgggtcagcgg	840
Query: 9872	cgtcaaccgggactccggcatatcacagaacttgctttaaaccggttttcataatcactc	9931
Sbjct: 841	 cgtcaaccgggactccggcatatcacagaacttgctttaaaccggttttcataatcactc	900
Query: 9932	cagtgaaaataaatgcgcgtacttcagtatattatattttgttatgtaacggttctccgg	9991
Sbjct: 901	 cagtgaaaataaatgcgcgtacttcagtatattatattttgttatgtaacggttctccgg	960
Query: 9992	gcaggcagttatccttcggaaattgctctgttcttgagggaacagcaaatgggttacaggc	10051
Sbjct: 961	 gcaggcagttatccttcggaaattgctctgttcttgagggaacagcaaatgggttacaggc	1020

Query: 10052 aacgacaacaagatgacttgaaaaatgctgccttcgcaataacactgtattcatacgggt 10111
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1021 aacgacaacaagatgacttgaaaaatgctgccttcgcaataacactgtattcatacgggt 1080

Query: 10112 cttccgttggtgtggtggctgaaggcatgataatggcgtattaaatcgccagagggtcacc 10171
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1081 cttccgttggtgtggtggctgaaggcatgataatggcgtattaaatcgccagagggtcacc 1140

Query: 10172 accatggacgaaaagtccctctatgcacatatcctcaactgtcagctccgtggcaggta 10231
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1141 accatggacgaaaagtccctctatgcacatatcctcaactgtcagctccgtggcaggta 1200

Query: 10232 aag 10234
 |||
 Sbjct: 1201 aag 1203

Score = 264 bits (133), Expect = 1e-68
 Identities = 136/137 (99%)
 Strand = Plus / Plus

Query: 60207 gacaactggcgaggggaatataatcatgagagaacgcattcatcattaaatgacatgact 60266
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1 gacaactggcgaggggaatataatcatgagagaacgcattcatcattaaatgacatgact 60

Query: 60267 ccggctgaattcatccgaagtctccggaaagacgaagatctctgatttagcactgcactg 60326
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 61 ccggctgaattcatccgaagtctccggaaagacgaagatctctgatttagcactgcactg 120

Query: 60327 tttttggaccagggtca 60343
 ||||||| |||||||||
 Sbjct: 121 tttttgggcccagggtca 137

>NODE_43_length_1096_cov_31.518060
 Length = 1096

Score = 2173 bits (1096), Expect = 0.0
 Identities = 1096/1096 (100%)
 Strand = Plus / Plus

Query: 10108 gggctcttccgttggtgtggtggctgaaggcatgataatggcgtattaaatcgccagagggt 10167
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1 gggctcttccgttggtgtggtggctgaaggcatgataatggcgtattaaatcgccagagggt 60

Query: 10168 caccacatggacgaaaagtccctctatgcacatatcctcaactgtcagctccgtggca 10227
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 61 caccacatggacgaaaagtccctctatgcacatatcctcaactgtcagctccgtggca 120

Query: 10228 ggtaaagtctctttctctcgatgaaaatgccgcttctgttaccgttactgtcgcaatccc 10287
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 121 ggtaaagtctctttctctcgatgaaaatgccgcttctgttaccgttactgtcgcaatccc 180

Query: 10288 tgaaaataactcagttaacctgtccagcctgcgggaaatcctgccccgttcacgatcaccg 10347
 |||||
 Sbjct: 181 tgaaaataactcagttaacctgtccagcctgcgggaaatcctgccccgttcacgatcaccg 240

Query: 10348 gcatcgtaaatggcgtcacctcgataacctgccagttcgccacaatagttgaagccagtat 10407
 |||||
 Sbjct: 241 gcatcgtaaatggcgtcacctcgataacctgccagttcgccacaatagttgaagccagtat 300

Query: 10408 gccccgtgttatgtgtccgaagcatggatgccagactttgcctgttccgtgggcggggcc 10467
 |||||
 Sbjct: 301 gccccgtgttatgtgtccgaagcatggatgccagactttgcctgttccgtgggcggggcc 360

Query: 10468 cggcagccggtatacgtgctgttcgaatcattcgtgctttcatggctgaaaatcagcac 10527
 |||||
 Sbjct: 361 cggcagccggtatacgtgctgttcgaatcattcgtgctttcatggctgaaaatcagcac 420

Query: 10528 tgttgatgcagtcaggaaacaactcaaactgagctggaatgccgttgacggcattatgac 10587
 |||||
 Sbjct: 421 tgttgatgcagtcaggaaacaactcaaactgagctggaatgccgttgacggcattatgac 480

Query: 10588 ccgcgcggttaaaccgagggcttgccagggataaaaaagccgttagcagcccgcatatgaa 10647
 |||||
 Sbjct: 481 ccgcgcggttaaaccgagggcttgccagggataaaaaagccgttagcagcccgcatatgaa 540

Query: 10648 tgtggacgaggtcgcttttaaaaaaggacatcggtatataacggtgatctccgatcgatga 10707
 |||||
 Sbjct: 541 tgtggacgaggtcgcttttaaaaaaggacatcggtatataacggtgatctccgatcgatga 600

Query: 10708 cgggcgggcgctggctttaacggataatcgaggtgaaggaaagtcttgccggttacctcag 10767
 |||||
 Sbjct: 601 cgggcgggcgctggctttaacggataatcgaggtgaaggaaagtcttgccggttacctcag 660

Query: 10768 aaccctgactgatggacagctacaggctattaaaacgctctcaatggacatgaatgcggg 10827
 |||||
 Sbjct: 661 aaccctgactgatggacagctacaggctattaaaacgctctcaatggacatgaatgcggg 720

Query: 10828 ctatataagagccgcacgcacatccacttaccgtgtgcagttgataaaatcgcccttgaccg 10887
 |||||
 Sbjct: 721 ctatataagagccgcacgcacatccacttaccgtgtgcagttgataaaatcgcccttgaccg 780

Query: 10888 cttccacgtagcgaaacagctgggtgaggtggtggataaaacccgccagaatgaacatcc 10947
 |||||
 Sbjct: 781 cttccacgtagcgaaacagctgggtgaggtggtggataaaacccgccagaatgaacatcc 840

Query: 10948 ccgtcttccggttgaaagccgcgctcaggccaaaggtacccgcttcctgtggcagtacag 11007
 |||||
 Sbjct: 841 ccgtcttccggttgaaagccgcgctcaggccaaaggtacccgcttcctgtggcagtacag 900

Query: 11008 cgacaaatggatgactgagtcgccggcaggaaaagctgatgtggctgcgggaacagatgca 11067
 |||||
 Sbjct: 901 cgacaaatggatgactgagtcgccggcaggaaaagctgatgtggctgcgggaacagatgca 960

Query: 11068 gcagacaagccagtgtggacactgaaagagctggccaaaaatatctgggatcgcccctg 11127
 |||||
 Sbjct: 961 gcagacaagccagtgtggacactgaaagagctggccaaaaatatctgggatcgcccctg 1020

Query: 11128 gagcacagaacgcaggaatgactggttgagtgatcgctggcgtctgaatgtgatgt 11187
|||||
Sbjct: 1021 gagcacagaacgcaggaatgactggttgagtgatcgctggcgtctgaatgtgatgt 1080

Query: 11188 gccgatgatgaaaaac 11203
|||||
Sbjct: 1081 gccgatgatgaaaaac 1096

>NODE_57_length_464_cov_11.741840
Length = 464

Score = 920 bits (464), Expect = 0.0
Identities = 464/464 (100%)
Strand = Plus / Plus

Query: 8671 gtcggataacctgtttaacggacgacggttccggcgctgactgtagtggataatatttag 8730
|||||
Sbjct: 1 gtcggataacctgtttaacggacgacggttccggcgctgactgtagtggataatatttag 60

Query: 8731 tcgggagtggtggtgacgatccatgccggaaagtcgctgaaagtgaggatgtggtcggtgt 8790
|||||
Sbjct: 61 tcgggagtggtggtgacgatccatgccggaaagtcgctgaaagtgaggatgtggtcggtgt 120

Query: 8791 gatggaagggttacgggtgccgggcaagcgctgccggtacgtattcagacagataacgg 8850
|||||
Sbjct: 121 gatggaagggttacgggtgccgggcaagcgctgccggtacgtattcagacagataacgg 180

Query: 8851 cagcgagtttatttcgaagagtctggataaatggcgctatgagcacggtgtcacaatgga 8910
|||||
Sbjct: 181 cagcgagtttatttcgaagagtctggataaatggcgctatgagcacggtgtcacaatgga 240

Query: 8911 cttctcccgccccgaaaaccaacggataaccggtttattgaatcatttaacggcagtct 8970
|||||
Sbjct: 241 cttctcccgccccgaaaaccaacggataaccggtttattgaatcatttaacggcagtct 300

Query: 8971 gcgggatgaatgcctgaacattcactggtttctctcactggaagatgcgcaggacaaaact 9030
|||||
Sbjct: 301 gcgggatgaatgcctgaacattcactggtttctctcactggaagatgcgcaggacaaaact 360

Query: 9031 cgacaactggcgaggaataataatcatgagagaacgcattcatcattaaatgacatgac 9090
|||||
Sbjct: 361 cgacaactggcgaggaataataatcatgagagaacgcattcatcattaaatgacatgac 420

Query: 9091 tccggctgaattcatccgaagtctccggaaagacgaagatctct 9134
|||||
Sbjct: 421 tccggctgaattcatccgaagtctccggaaagacgaagatctct 464

Score = 872 bits (440), Expect = 0.0
Identities = 458/464 (98%)
Strand = Plus / Plus

Query: 59846 gtcggataacctgtttaacggacgacgtttccgggcgctgactgtagtgataatTTtag 59905
 |||
 Sbjct: 1 gtcggataacctgtttaacggacgacgtttccgggcgctgactgtagtgataatTTtag 60

Query: 59906 tcgggagtgtgtggcgatccatgccggaaagtcgctgaaaggtgaggatgtggtcggtgt 59965
 |||
 Sbjct: 61 tcgggagtgtgtggcgatccatgccggaaagtcgctgaaaggtgaggatgtggtcggtgt 120

Query: 59966 gatggaaaggttgcgggtgccgggcaagcgctgccggtacgtattcagacagataacgg 60025
 |||
 Sbjct: 121 gatggaagggttacgggtgccgggcaagcgctgccggtacgtattcagacagataacgg 180

Query: 60026 cagcgagtttatctcgaaaagtctggataaatgggcgtatgagcacggtgttacaatgga 60085
 |||
 Sbjct: 181 cagcgagtttatctcgaaaagtctggataaatgggcgtatgagcacggtgtcacaatgga 240

Query: 60086 cttctcccgccccgaaaaaccaacggataaaccgtttattgaatcatttaacggcagtct 60145
 |||
 Sbjct: 241 cttctcccgccccgaaaaaccaacggataaaccgtttattgaatcatttaacggcagtct 300

Query: 60146 gcgggatgaatgcctgaacattcactggtttctctcgctggaagatgcgcaggacaaaact 60205
 |||
 Sbjct: 301 gcgggatgaatgcctgaacattcactggtttctctcgctggaagatgcgcaggacaaaact 360

Query: 60206 cgacaactggcgcagggaatataatcatgagagaacgcattcatcattaaatgacatgac 60265
 |||
 Sbjct: 361 cgacaactggcgcagggaatataatcatgagagaacgcattcatcattaaatgacatgac 420

Query: 60266 tccggctgaattcatccgaagtctccggaagacgaagatctct 60309
 |||
 Sbjct: 421 tccggctgaattcatccgaagtctccggaagacgaagatctct 464

>NODE_61_length_430_cov_16.871287
 Length = 430

Score = 852 bits (430), Expect = 0.0
 Identities = 430/430 (100%)
 Strand = Plus / Plus

Query: 59242 atagcatttgcgctgaaacaggccgaaaccggcactcgggtggaggaagtctgcagaaag 59301
 |||
 Sbjct: 1 atagcatttgcgctgaaacaggccgaaaccggcactcgggtggaggaagtctgcagaaag 60

Query: 59302 atgggcatttctgaagccacattttacaactggaagaaaaagtgtggcggcatgggcgtg 59361
 |||
 Sbjct: 61 atgggcatttctgaagccacattttacaactggaagaaaaagtgtggcggcatgggcgtg 120

Query: 59362 acagagctgcgccgctgcgccagcttgaggaagagaatcagcgtctgaaacgtctggtg 59421
 |||
 Sbjct: 121 acagagctgcgccgctgcgccagcttgaggaagagaatcagcgtctgaaacgtctggtg 180

Query: 59422 gccgatttaagtctggacaaggagatgctgcaggaagttatcaaaaaaagttctgaggc 59481
 |||
 Sbjct: 181 gccgatttaagtctggacaaggagatgctgcaggaagttatcaaaaaaagttctgaggc 240

Query: 59482 cggctcagaagcgtcaggcggtgcattttctgcgggaggcttaccgtatcagtgtccgac 59541
 |||||
 Sbjct: 241 cggctcagaagcgtcaggcggtgcattttctgcgggaggcttaccgtatcagtgtccgac 300

Query: 59542 ggggatgcggactgctgatgcagagcagaaccggtttaccactggcagagccggcggggatg 59601
 |||||
 Sbjct: 301 ggggatgcggactgctgatgcagagcagaaccggtttaccactggcagagccggcggggatg 360

Query: 59602 atcgggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttgcc 59661
 |||||
 Sbjct: 361 atcgggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttgcc 420

Query: 59662 cgcgtattca 59671
 |||||
 Sbjct: 421 cgcgtattca 430

Score = 844 bits (426), Expect = 0.0
 Identities = 429/430 (99%)
 Strand = Plus / Plus

Query: 8067 atagcatttgcgctgaaacaggccgaaaccggcactcgggtggaggaagtctgcagaaag 8126
 |||||
 Sbjct: 1 atagcatttgcgctgaaacaggccgaaaccggcactcgggtggaggaagtctgcagaaag 60

Query: 8127 atgggcatttctgaagccacattttacaactggaagaaaaagtttggcggcatgggcgtg 8186
 |||||
 Sbjct: 61 atgggcatttctgaagccacattttacaactggaagaaaaagtttggcggcatgggcgtg 120

Query: 8187 acagagctgcgccgctgcgccagcttgaggaagagaatcagcgtctgaaacgtctggtg 8246
 |||||
 Sbjct: 121 acagagctgcgccgctgcgccagcttgaggaagagaatcagcgtctgaaacgtctggtg 180

Query: 8247 gccgatttaagtctggacaaggagatgctgcaggaagttatcaaaaaaagttctgaggc 8306
 |||||
 Sbjct: 181 gccgatttaagtctggacaaggagatgctgcaggaagttatcaaaaaaagttctgaggc 240

Query: 8307 cgactcagaagcgtcaggcggtgcattttctgcgggaggcttaccgtatcagtgtccgac 8366
 |||||
 Sbjct: 241 cggctcagaagcgtcaggcggtgcattttctgcgggaggcttaccgtatcagtgtccgac 300

Query: 8367 ggggatgcggactgctgatgcagagcagaaccggtttaccactggcagagccggcggggatg 8426
 |||||
 Sbjct: 301 ggggatgcggactgctgatgcagagcagaaccggtttaccactggcagagccggcggggatg 360

Query: 8427 atcgggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttgcc 8486
 |||||
 Sbjct: 361 atcgggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttgcc 420

Query: 8487 cgcgtattca 8496
 |||||
 Sbjct: 421 cgcgtattca 430

Score = 40.1 bits (20), Expect = 0.31
Identities = 23/24 (95%)
Strand = Plus / Minus

Query: 18275 gattctcttcctcaagctgccgca 18298
 |||||
Sbjct: 160 gattctcttcctcaagctggcgca 137

>NODE_72_length_369_cov_12.644628
Length = 369

Score = 731 bits (369), Expect = 0.0
Identities = 369/369 (100%)
Strand = Plus / Minus

Query: 8370 gatgcggactgctgatgcagagcagaaccggtttaccactggcagagccggcgggatgatc 8429
 |||||
Sbjct: 369 gatgcggactgctgatgcagagcagaaccggtttaccactggcagagccggcgggatgatc 310

Query: 8430 gggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttgcccg 8489
 |||||
Sbjct: 309 gggcgataaccctgcgtatccgggaaatagcagaaaccggatccgctacggttgcccg 250

Query: 8490 gtattcacattcagctgcggcggaaggctggcctgttaaccacaagaaaacacaccgga 8549
 |||||
Sbjct: 249 gtattcacattcagctgcggcggaaggctggcctgttaaccacaagaaaacacaccgga 190

Query: 8550 ttactgtctggaaggcctcaacctgcgcaaaaagcgccccgcaggcatgtcagtgag 8609
 |||||
Sbjct: 189 ttactgtctggaaggcctcaacctgcgcaaaaagcgccccgcaggcatgtcagtgag 130

Query: 8610 cgcacgtcagcaacgtccggtcctgaccggtgtcgatcagtgctggagtatggatttcg 8669
 |||||
Sbjct: 129 cgcacgtcagcaacgtccggtcctgaccggtgtcgatcagtgctggagtatggatttcg 70

Query: 8670 tgtcggataacctgtttaacggacgacgtttccggcgctgactgtagtggataatttta 8729
 |||||
Sbjct: 69 tgtcggataacctgtttaacggacgacgtttccggcgctgactgtagtggataatttta 10

Query: 8730 gtcgggagt 8738
 |||||
Sbjct: 9 gtcgggagt 1

Score = 700 bits (353), Expect = 0.0
Identities = 365/369 (98%)
Strand = Plus / Minus

Query: 59545 gatgcggactgctgatgcagagcagaaccgtttaccactggcagagccggcgggatgatc 59604
 |||||
 Sbjct: 369 gatgcggactgctgatgcagagcagaaccgtttaccactggcagagccggcgggatgatc 310

Query: 59605 gggcgataaccctgcgtatccgggaaatagcagaaacccggatccgctacgggtgcccgc 59664
 |||||
 Sbjct: 309 gggcgataaccctgcgtatccgggaaatagcagaaacccggatccgctacgggtgcccgc 250

Query: 59665 gtattcatattcagttgcggcggggaaggctggcctgttaaccacaagaaaacacaccgga 59724
 |||||
 Sbjct: 249 gtattcacattcagctgcggcggggaaggctggcctgttaaccacaagaaaacacaccgga 190

Query: 59725 tttactgtctggaagtcctcaacctgcgcaaaaagcgccccgcaggcatgtcagtgcag 59784
 |||||
 Sbjct: 189 tttactgtctggaaggcctcaacctgcgcaaaaagcgccccgcaggcatgtcagtgcag 130

Query: 59785 cacatcgtcagcaacgtccggctcctgaccgggtgtcgatcagtgtggagtatggatttcg 59844
 |
 Sbjct: 129 cgcacgtcagcaacgtccggctcctgaccgggtgtcgatcagtgtggagtatggatttcg 70

Query: 59845 tgtcggataacctgtttaacggacgacgtttccgggcgctgactgtagtggataatttta 59904
 |||||
 Sbjct: 69 tgtcggataacctgtttaacggacgacgtttccgggcgctgactgtagtggataatttta 10

Query: 59905 gtcgggagt 59913
 |||||
 Sbjct: 9 gtcgggagt 1

>NODE_14_length_153665_cov_8.989794
 Length = 153665

Score = 498 bits (251), Expect = e-139
 Identities = 1091/1371 (79%)
 Strand = Plus / Minus

Query: 62879 gtggaacaggcgtaaatacactggcagaaccagcagagtcagaatagtagcaaaaccag 62938
 |||||
 Sbjct: 98775 gtggaagcaagcgtaaatacaccggcagaaccagtagcgtcagtacgggtggcaaaggcgag 98716

Query: 62939 accaaacatgatcacaaccgccatgctctggaagaaaacgtccagtaatagcggcgccag 62998
 ||
 Sbjct: 98715 gccgaacatgatcaccaccgccatactctggaaaaagacatcgcgacgagcggggcaag 98656

Query: 62999 gccgagcacggtggtaaacgccgtcagcaggatcgggcgacgacgtggcggcata 63058
 ||
 Sbjct: 98655 gccgaagcacagtgtgaaaggcggtcagcaggatcggccgacagagaggttgccgcac 98596

Query: 63059 gataatagcctcctgttgccctttctccttcttctgctgttcaatttcttctaccagcac 63118
 ||
 Sbjct: 98595 aatgattgcttgtctttgatctttctcctgtttttgttgcctctatctcttccaccagcac 98536

Query: 63119 gatgccgttacggatcagcatgccgctcaggctcagcaagccgattaacgccataaagcc 63178
 |||||
 Sbjct: 98535 aatgccgttgccgatcagcataccgctgaggctaagcaggccgattaaggccataaagcc 98476

Query: 63179 aaaggggatgccggtgaagcaagaagccccggcggttacgccaatcagtgccagcggtatggt 63238
 || ||||| ||||| ||||| || ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 98475 gaaaggggatgccggtcagcaaaaaaccgggcgtgacgccgatcagcgccagcgggacggt 98416

Query: 63239 cagccagatagccaccgcgttttttcagtgaactaaacatcagcacggttaattacaaacat 63298
 ||||| || || ||||| ||||| || || ||||| ||||| ||||| ||||| |||||
 Sbjct: 98415 cagccagatggcaacagcggttttttcagcgaactgaacatcagcaccgtaatgataaacat 98356

Query: 63299 caacaggttaaccagcggcagtgtagtgaacagaccctgctgcgctcgctggagttctc 63358
 || ||| || || ||||| || ||||| || ||||| || ||||| || ||||| |||||
 Sbjct: 98355 caccagatagccaagcggcagggctgtagaacagcccttgcgcttcactggagttctc 98296

Query: 63359 tgcacgcccgcctcaatgctgtatccgtgcggcaaacgcacatcaatctgcgg 63418
 ||||| ||||| || ||||| || ||||| || ||||| || ||||| ||||| |||||
 Sbjct: 98295 cgcacgcccgccttcgatgcggtagccatgcggcagcgtcagcgctcaatgcgtgg 98236

Query: 63419 cttcacacgggacaggatatccccagcgtctggttgctcagcggatcgggatcggtctg 63478
 ||||| || || ||||| || || ||||| || || ||||| || || ||||| |||||
 Sbjct: 98235 tttcacctggcaaggatatcgccgacgtttggcgcgtttgcgggctggggctcggtctg 98176

Query: 63479 caccgtcaacacgcggctgcggtcgcggcagcaggataagcggatcttcccatcgaggtg 63538
 || || | ||||| ||||| ||||| || || || || || ||||| ||||| |||||
 Sbjct: 98175 aacggttaagcacgcgggtgcgatcgcgacggagaatcaatggatcttcccatccagcga 98116

Query: 63539 aaagccgctgaccacgttactgagcgggaatatactgctggcggctctggctccagaccag 63598
 ||||| || ||||| || ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 98115 gaagccatggatgacgttactcaacggaatatactgctgccggctctggctccagaccag 98056

Query: 63599 cacgttattcaggtgattcgctcctggcgctcagcggccggggggcgacgacgactgg 63658
 ||||| ||||| ||||| || ||||| ||||| || ||||| || ||||| || |||||
 Sbjct: 98055 cacgttattcaggtgattggcatcctgtcgctctgcttccggcgacggacgataacggg 97996

Query: 63659 cagcaggtcggctccctcgcggtacaagccagcgcggctgccggaaaagtcatctccag 63718
 ||||| ||||| ||||| || || || ||||| ||||| ||||| ||||| |||||
 Sbjct: 97995 cagcaggtcggcgccctcgcgatataaccggcgcgactgccggagaaattcatctccag 97936

Query: 63719 cgcgttatcaatatcctgtttatcaacccccagctcgccccaagcgcggtggagttctg 63778
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 97935 cgcgctatcaatatcctgtttatccacccccagctcacgtcccaacgccagagagtattg 97876

Query: 63779 cgggcggataactttgctgcggttttgccagtcattccggacaccatcggtagccggatc 63838
 ||||| || ||||| ||||| ||||| ||||| || || || || ||||| ||||| |||||
 Sbjct: 97875 cgggcggatcaccttgcggttctgccagtcgttacgtacgctgctcggtcgccggatc 97816

Query: 63839 tgcagagagaatatcgccaacctggctggcgagcaggcgcaggcggtcggggctcggacc 63898
 || | ||||| ||||| ||||| ||||| || ||||| || || || || |||||
 Sbjct: 97815 cgcggcgagaatgtcgccacctgactggccagcgcgcgcagagtatccggatcagggcc 97756

Query: 63899 tttaatccgcacctcaatggcgctgtcgccggaaggccgaacatcacgcgtttcgtgct 63958
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Sbjct: 97755 cttaatgcgcacttcaatcgcgctatcgccggacgggcccgaacataatgcgtttggtgct 97696

Query: 63959 ggcgtttacctgcggatagttgcgtgcaatatagcgatcaacatgctgcgttagggctgc 64018
 ||||| ||||| ||||| ||||| || ||||| || || || || ||||| ||||| |||||
 Sbjct: 97695 ggcgttcacctgcggtagtttctggcaatccaggcctcgacgtggcggtgacgggggc 97636

Query: 64019 aatTTTgcgctgatcgTccatgcgcacCATgattTgcgcataGttgctgtactgccgttg 64078
|| ||||| ||||| ||||| ||||| || ||||| ||||| || ||
Sbjct: 97635 gatactgcgctggTcgtccatccgcaccataatctgcgcgtagttgctgtactggcgctg 97576

Query: 64079 tccgctataggtgaggataaaccgCATgctgcCctggccaacggtggccatggtggtgac 64138
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 97575 cccgctgtaggtgagaataaatcgCatactgcCctggccaatggtggagacggtggtagc 97516

Query: 64139 caccCCgggctggccgttaattgtggtctcaatatcgctggTcatcttttcggtggTcgc 64198
||||| ||||| || || || ||||| ||||| ||||| ||||| ||
Sbjct: 97515 caccCCgggctggctggcgatcgaccgctcaatatcgcggtcatctgctcggtggcgTt 97456

Query: 64199 gatatcggtaccgtacgggagccagagatcgacaaagaaaatcggcgtatt 64249
||||| ||||| || || || || || || || || || || || || ||
Sbjct: 97455 aatatcggtaccgtagggcaaccacaggtcgacaaagaaaatgggcgtatt 97405

Score = 186 bits (94), Expect = 2e-45
Identities = 226/270 (83%)
Strand = Plus / Minus

Query: 62396 aaaccatggctggataagatagcccgctggtagggctccagagatagTaccgcTcat 62455
||||| ||||| || || ||||| ||||| || ||||| ||||| || ||||| ||
Sbjct: 99110 aaaccagggctggatcaggtagccgcgctgataaggctccagacataatagaccgttac 99051

Query: 62456 ccagaacagaaagacgattaccacgctcttgattttgcccaattgccattgtgaatcatg 62515
||||| ||||| ||||| ||||| || || ||||| || ||||| || || || || ||
Sbjct: 99050 ccagaacagaaagacgatgaccacgcttttaattttgccgatttgccagttggcatcgtg 98991

Query: 62516 gcgagactgcgaatcaagatagcccgccaccacaaaaaacagcggcgtggcgatagtcga 62575
|| || || || ||||| || || ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 98990 acgcgtctgtgcatcaagataaccagccaccacaaaaaacagcgctcgcgatggtcga 98931

Query: 62576 aataaacgtcaaaaacccgaggatccagtgatagtcataatcatagctatcccaggtgTt 62635
||||| ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 98930 gataaaggtcagcagcccgaggatccagtgatagtcataatcatagtgatcccaggtgTt 98871

Query: 62636 gtaaatggtgaagaaagtcaccgccgtcat 62665
|| || ||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||
Sbjct: 98870 atagatagtgaaaaaggtcaccgctgtcat 98841

Score = 99.6 bits (50), Expect = 4e-19
Identities = 86/98 (87%)
Strand = Plus / Minus

Query: 64434 tttttaaacagccaccatttgattagcaccggcgTgatggttagcgCagagaaccagctc 64493
||||| ||||| ||||| ||||| ||||| ||||| ||||| || || || || || || || ||
Sbjct: 97217 tttttaaacaccaccacttgatgagcaccggcgTgatggtcagggcggaaccagctg 97158

Query: 64494 agcatgagcgaatcagcagcacctggaacagcgattt 64531

Score = 63.9 bits (32), Expect = 2e-08
Identities = 75/88 (85%), Gaps = 1/88 (1%)
Strand = Plus / Minus

Query: 62009 aatataaaatttgtgaaccgggtcagaatgaacgcatttctgtcggccttaaacagggcgaa 62068
 |||
 Sbjct: 99498 aatataaaatttgcgatcccgtcagaatgaacgcattgcgatcggctttaacagcgcgaa 99439

```
Query: 62069 -aaagaaatgccgctcgtaaaaccaggt 62095
          ||| ||||| || || |||||
Sbjct: 99438 gaaaaaaaaatggcgttcataaaaccaggt 99411
```

Score = 61.9 bits (31), Expect = 9e-08
Identities = 49/55 (89%)
Strand = Plus / Minus

Query: 61872 agcaggtgaaaaacggagtagtgaggagaatataaacgccggtcattgttttgctaa 61926
 |||
 Sbjct: 99635 agcaggtggaaaacggagtagtgacagaatatagacccccggtcatcgctttgctaa 99581

Score = 38.2 bits (19), Expect = 1.2
Identities = 31/35 (88%)
Strand = Plus / Minus

Query: 62694 ccggtactgttcattggttgctcgttcataatcccta 62728
|||||
Sbjct: 98812 ccggtactgttcattggttgagggcgtaataatcccta 98778

```
>NODE_16_length_96205_cov_11.645944
      Length = 96205
```

Score = 438 bits (221), Expect = e-121
Identities = 655/797 (82%), Gaps = 2/797 (0%)
Strand = Plus / Plus

Query: 7083 t g t a a g c a t c a c g g t a a a g c g g a c c a t t c a c a t t t a g a g a t c t t c c t g c a t a c t g a t t a t 7142
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 64154 t g t a a g t a t c c c g g c a a a a c g a a c c a t t c a c t t t t a g a g a t t t t c c g a c a t a c t g a t t a t 64213

Query: 7143 gttcctggaggagatcgccatgcgcaaagcccgattcacctaaccagatcattgccgt 7202
 || ||
 Sbjct: 64214 gtccccctgaaggagatcgctatgcgcaagctccgattcactgaacaccagatcatcgccgt 64273

Query: 7203 tctgaagtcgctcgaagccggacgcaccgtcaaagatgtctgccgcgaagccgggattgc 7262
 |||||
 Sbjct: 64274 attgaagtcgctcgaagctgaacgtaccgtcaaggatgtttgccgtgaggccgctatttc 64333

Query: 7263 tgaggcctcgtactacaactggaaagcgaagttcggcggatggaagcctctgatataa 7322
 |||||
 Sbjct: 64334 ggaagccagctattacaactggaaggcaagcatggcgggatggaagcggtcgatattaa 64393

Query: 7323 aaagatgaaggacctcgtatgatgaaaactaccggttgaaacagatgtttgccggacctgag 7382
 |||||
 Sbjct: 64394 aaaaatcaaagatctggaagacgagaatcgaggcttaacagatgtttgctgatctcag 64453

Query: 7383 tctcgagtgccgcgccctgaaagacggttattgaaaaaa-gctttaaaaccagcaaaaaag 7441
 |||||
 Sbjct: 64454 tcttgagtgccgggcactgaaagacgctcatcgaaaaaagctttaaaaccagcgataaag 64513

Query: 7442 cgtgagctggctcagctatctgaccgcgcagtttgccatgagcttacgtcaggcatgcagg 7501
 |||||
 Sbjct: 64514 cgtgaactcgtcagctatctgacgacgcaatttgccataagtttacgccaggcctgcagg 64573

Query: 7502 atattgtcgctgagcaggacgggtatttcgttatcagccgatacgcaacgtgatgagcca 7561
 |||||
 Sbjct: 64574 acgttatcgctgagcaggacgggtgtatttttaccagcccgatacccggcgtgatgaacc 64633

Query: 7562 gtcattatggcgctgaccgtggcggctgaacgctatccg-gatacggatttaaaaagctt 7620
 |||||
 Sbjct: 64634 gtgatccacgcgctgactgaactggcagaacgctatccgcgctacggttttaagaagctg 64693

Query: 7621 tttcaggtgctgcgcaggcagggcaaaaagctggaaccataagcgcttcaccggatttac 7680
 |||||
 Sbjct: 64694 ttccagctgctgcgcaggcagggcaataacctggaaccataaatgtgttcaccggatttat 64753

Query: 7681 tgcctgctgaaactgaattttcgcccgaagggaaaacagcgctgccagtggtaatccg 7740
 |||||
 Sbjct: 64754 tgcctgctgaaactgaattttcgctcgcaagggaaaacagcggtgccagtgcgtaatcca 64813

Query: 7741 gctccgctggcgacgccagaggcgatgaaccagagctggtccatcgattatatgcacgat 7800
 |||||
 Sbjct: 64814 gcaccctggcgacaccgcaagcggttaaaccagagctggcccatcgattttatgcacgac 64873

Query: 7801 gcgctggtgtgcggcagacgcttccggaccttcaacgtggtggatgattttaaccgcgaa 7860
 |||||
 Sbjct: 64874 gcgttggtctgcggcagacgcttccggaccttcaatgtggtggatgattttaaccgtgaa 64933

Query: 7861 gcactggcgatcgaat 7877
 |||||
 Sbjct: 64934 gcactggcgatagaaat 64950

Score = 58.0 bits (29), Expect = 1e-06
 Identities = 62/73 (84%)
 Strand = Plus / Plus

Query: 7884 gaatataacggcgagcgccccacgaatccctgaataatatgacaccggaagagtaccga 7943
 ||||||| ||||| || || || || || || || || || || || || || ||
 Sbjct: 65240 gaatataacaacgagcggcctcatgagtcctgaacaacctgacgccggaagagtaccgg 65299

```
>NODE_3_length_470369_cov_9.494788
      Length = 470369
```

Query: 35998 gatattccggtggtgtggaatatcgtctggaacgcgacggcgacctttattgccgtaatt 36057
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 55071 gatatcccgtggtgtggcatatcatctggaatgcgaccgccacctttatcgccgttatc 55130

Query: 36118 cgatggggtaacggtcgtggacgtttgctctttacgtatatcgttctgctcggtcgcggcg 36177
 |||||
 Sbjct: 55191 cgctggggaagagggcggggtcgtctgctatttacctggattatcctgctcggcgccgcg 55250

Query: 36238 atgctgctggcattagggttcagcaaagggtacgacactggcatttgtcatggcagccggt 36297
 ||||| | | | | | | | | | | | | | | | | | | | |
Sbjct: 55311 atgctgcgagcgctgggattcagcaagggaacgatgctggcctttgtcatggccgccgga 55370

Query: 36358 gcggaacttctttggactgggcttcactgagtatgcgtcggtgatggttcggttgatatt 36417
|| || || || || || | || || || || || || || || || || || || || || ||
Sbjct: 55431 gcagatttctttgccatcggcttcaggagtagcgttcggtgatggtgccggtcgatctc 55490

Query: 36478 acttacgacctggcgctcctgaaagctccgacaaaagcaataaaagatcctgctacgttc 36537
| | || ||||| ||||| || | ||||| |||||
Sbjct: 55551 gcctgggatatgccgttactgaaagcgccggtcacggcgataaaagatccggcgacgttc 55610

Query: 36598 gggattcccgttagtgcgattgcggtctgttgggtgctgtgatcctgtttgcggtagctaaa 36657
||||| || || | | | | | | | | | | | | | | | | | | | |
Sbjct: 55671 gggatccccggtcagcgcccatcgcgggcgccgggagcggggatcctgtttgctgtcgcgaag 55730

Query: 36658 cgaggccatgccattaacaccggcaaagtgtctgcgtggcgccacctggcaaatcgtcatac 36717
|| | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 55731 cgcgggCGGGTgattaacaccggcaaggtgtctgcgcggcgccccgtggcagatcgatgatc 55790

Query: 36718 ttctccttggggatgtacctgggtggtctacggtctctgcgcaacgccgggctaaccgaatac 36777
||||| ||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 55791 ttctcgttggaatgtatctggtggtgtatggcctgcgaaacgccgggttaacggattat 55850

Query: 36778 ctttcaggagtgtctgaacgtactggcggataaaggactctgggctgcgacgtgggtact 36837
|| | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 55851 ctgaccacggtgtctgaacatgctggcggagcgcgggctctgggCCGcgacgtgggcacc 55910

Query: 36838 ggcttcctgacggctttcctgtcttccatcatgaacaacatgcctaccgtgctggttggc 36897
|| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 55911 ggtatcctgtcggccttcctctcttcaataatgaataatatgccagcgtactggtcggc 55970

Query: 36898 gctctttctatcgatggaagcactgcaactggcgttattaaagaggcgatgatctacgcc 36957
|| || | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 55971 gccctgtcgattgatggcagcgcgccacagggacgatcaaagaggccatgatttatgcc 56030

Query: 36958 aacgtgattggctgcgatctggggccgaaaattacacctataggtagcctggcaacgctg 37017
||||| || | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 56031 aacgtcatcggtgcgatctggggcccaagatcacgccaattggtagcctggccacgctg 56090

Query: 37018 ctctggctgcatgtcctttcacagaagaatatgaccattacctggggatactatttccgc 37077
||||| ||||| || | | | | | | | | | | | | | | | | | | | | |
Sbjct: 56091 ctctggctgcatgtgctggcgCagaagcacatcaccatcggttgggggtattatttccgc 56150

Query: 37078 accgggatcgtcatgactctgcctgtgctgtttgtaaCgctggcagcgtggcgttacgt 37137
|| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 56151 tgtggcatcaccatgaccctgccggtgctgcttgtgacgctggccgcactggcgctgcgt 56210

Query: 37138 ctctctttcactttgtaatgagatactgatatgagcaacatcaccatttatcacaaccog 37197
||||| ||||| | | | | | | | | | | | | | | | | | | | | |
Sbjct: 56211 ctctccttcaaccagccatgagaacgtactatgag---catcaccatttaccataaacct 56267

Query: 37198 gcctgcggcacgtcgcgtaatacgtggagatgatccgcaacagtggtaatgaaccgacc 37257
| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 56268 gactgcggcacctcgcgtaataccctggcgctgatccgcaacagcggcgctgagcccacc 56327

Query: 37258 gttattcattacottgaaaatccaccttcacgcgatgagctgggtcaaactcattgcagat 37317
||||| ||||| || | | | | | | | | | | | | | | | | | | | | |
Sbjct: 56328 attatctattatctggagacgccgccatcgcgcgatgagctgcgccagctgatcgccgcg 56387

Query: 37318 atgggcatttcagtccgggctttgctgcgcaaaaaacgtcgagccttatgaagaactgggg 37377
||||| || | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 56388 atggcgatcccggTacgtgccctgctacggaaaaacgttgaaccctacgacgcgctgggg 56447

Query: 37378 cttgctgaagataagtttactgacgatgagttaatcgattttatgcttcagtatccgatc 37437
|| | | | | | | | | | | | | | | | | | | | | | | | | | |

Sbjct: 56448 ctggcggaagaccggtttactgacgatcagttaatcgactttatgcttcagcatccgatc 56507

Query: 37438 ctgattaaccgtccgattgtggtgacaccgctgggaacgcgcctttgccgcccttccgaa 37497

|||||

Sbjct: 56508 ctgattaaccgtccgatcgtgacaacgcgcggggcaccgactctgccgcccgctcagag 56567

Query: 37498 gtggtgctggatattcttccggatgcgcaaaaaggcgcatattgctaaggaagacggcgag 37557

|||||

Sbjct: 56568 gtggtgctggagatcctgacggcgctcgcaaaaaggcgcttcgtgaaggaagacgggtgag 56627

Query: 37558 aaagtcgttgatg 37570

|||||

Sbjct: 56628 ccagtcattgatg 56640

Score = 137 bits (69), Expect = 2e-30

Identities = 222/273 (81%)

Strand = Plus / Plus

Query: 33302 ccctacaactcttcaaatacctctccgatgaaaccggttgggtatcgtggtgctgctca 33361

|||||

Sbjct: 54570 ccctgcaactgttcaaaaacctcgccgatgaaaccggctggggatcgtattgctgctca 54629

Query: 33362 gggagatgggggagctgtgctgtgtgatctctgcactgcattggaacagtctcagccca 33421

|||

Sbjct: 54630 aggcgcgtggagagctgtgtgtttgcatctctgtacggcgctcgcccagtcagccca 54689

Query: 33422 agatctcccgccatctggcaatgctccgggaaagtggactattgctggatcgcaaacagg 33481

|||||

Sbjct: 54690 agatctcccgccatctggcgatgctgcggaaaagcgggctgctgctggatcgtaaacagg 54749

Query: 33482 gcaagtgggttcattaccgcctttctccgcaaattccttcctgggctgctcaagtaattg 33541

|

Sbjct: 54750 gtaaattgggtccattaccgcctctctccgcagatgccggcctgggcggcgaggtgattg 54809

Query: 33542 agctggcctggttaagccaacaggacgacgtgc 33574

|||||

Sbjct: 54810 agcaggcctggctcagtcagcaggacgatgtgc 54842

Score = 71.9 bits (36), Expect = 9e-11

Identities = 69/80 (86%)

Strand = Plus / Plus

Query: 35866 atgttactggcaggcgctatTTTTgtcctgaccattgttttggttatctggcaaccaaag 35925

|||||

Sbjct: 54939 atgttgctggcaggcgcatTTTTgtcctgaccctggtgttggtgatctggcagccgcgg 54998

Query: 35926 ggattagggatcggtggag 35945

||

Sbjct: 54999 ggtttagggatcggtggag 55018

Score = 48.1 bits (24), Expect = 0.001
Identities = 33/36 (91%)
Strand = Plus / Plus

Query: 61622 gttttatgtcgggtggcggctaccgccttaccgcac 61657
 ||||| |||||||||||||||| ||||| |||||||
Sbjct: 354174 gttttttgtcgggtggcggctagcgcctgacccgac 354209

Score = 38.2 bits (19), Expect = 1.2
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 19871 cagcagacgctgacccagg 19889
 |||||||||||||||||||
Sbjct: 132545 cagcagacgctgacccagg 132527

Score = 36.2 bits (18), Expect = 4.9
Identities = 30/34 (88%)
Strand = Plus / Plus

Query: 61631 cgggtggcggctaccgccttaccgcacttacaaa 61664
 ||||||||||| ||||||||||| | |||||
Sbjct: 59281 cgggtggcggctttcgcttaccgcgcctacaaa 59314

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 2746 tagagctgtttaaagccg 2763
 |||||||||||||||||
Sbjct: 68846 tagagctgtttaaagccg 68863

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 20038 acagcccggcttcgccgc 20055
 |||||||||||||||||
Sbjct: 297224 acagcccggcttcgccgc 297241

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 10874 atcgcctttgaccgcttc 10891
 |||||||
Sbjct: 310319 atcgcctttgaccgcttc 310302

>NODE_46_length_1018_cov_16.254770
 Length = 1018

Score = 252 bits (127), Expect = 4e-65
Identities = 127/127 (100%)
Strand = Plus / Plus

Query: 10108 gggctcttccgttgttgggtggctgaaggcatgataatggcgtattaaatcgccagaggt 10167
 |||||||
Sbjct: 892 gggctcttccgttgttgggtggctgaaggcatgataatggcgtattaaatcgccagaggt 951

Query: 10168 caccacatggacgaaaagtccctctatgcacatatcctcaacttgtcagctccgtggca 10227
 |||||||
Sbjct: 952 caccacatggacgaaaagtccctctatgcacatatcctcaacttgtcagctccgtggca 1011

Query: 10228 ggtaaag 10234
 |||||
Sbjct: 1012 ggtaaag 1018

>NODE_4_length_398729_cov_7.868694
 Length = 398729

Score = 135 bits (68), Expect = 7e-30
Identities = 113/128 (88%)
Strand = Plus / Minus

Query: 7105 accattcacatttagagatcttccctgcatactgattatgttcctggaggagatcgccatg 7164
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 260794 accattcacgttagggatcttccgacatactgattatgtcctctgaggagatcaccatg 260735

Query: 7165 cgcaaagcccgattcacctaaccacagatcattgccgttctgaagtccgtcgaagccgga 7224
 || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 260734 cgtaaagcccgattcatcgaacaccagatcattgccgttctgaagtccgtcgaagacaga 260675

Query: 7225 cgcaccgt 7232
 || |||||
Sbjct: 260674 cgtaccgt 260667

Score = 40.1 bits (20), Expect = 0.31
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 30709 gggcaaagactacacacagc 30728
 |||||
Sbjct: 367357 gggcaaagactacacacagc 367338

Score = 36.2 bits (18), Expect = 4.9
Identities = 21/22 (95%)
Strand = Plus / Minus

Query: 43613 taatgcagatcaggatgctggt 43634
 |||||
Sbjct: 7917 taatgccgatcaggatgctggt 7896

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 36827 cgctgggtactggcttcc 36844
 |||||
Sbjct: 103853 cgctgggtactggcttcc 103836

Score = 36.2 bits (18), Expect = 4.9
Identities = 21/22 (95%)
Strand = Plus / Minus

Query: 40323 tttttcgcccatccggcgctgg 40344
 |||||
Sbjct: 137455 tttttcgcccatccggcgctgg 137434

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 42405 agatgttcaacttaatct 42422
 |||||
Sbjct: 175088 agatgttcaacttaatct 175071

Score = 36.2 bits (18), Expect = 4.9

Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 23779 tggcaatatcaccctgac 23796
 ||||||||||||||||||
Sbjct: 211647 tggcaatatcaccctgac 211664

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 46875 aggttcgccatgagtga 46892
 ||||||||||||||||||
Sbjct: 265454 aggttcgccatgagtga 265471

>NODE_32_length_43518_cov_20.448595
 Length = 43518

Score = 79.8 bits (40), Expect = 4e-13
Identities = 49/52 (94%)
Strand = Plus / Minus

Query: 7652 ggaaccataagcgcgttcaccggatttactgcctgctgaaactgaattttcg 7703
 ||||||||| ||||||||| ||||||||||||||||||||||||||||
Sbjct: 26246 ggaaccataaatgcgttcaccgaatttactgcctgctgaaactgaattttcg 26195

Score = 42.1 bits (21), Expect = 0.079
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 60393 aattttcaatatccaaactgacccc 60417
 ||||||| ||||||||||||||||
Sbjct: 33916 aattttcgatatccaaactgacccc 33892

Score = 38.2 bits (19), Expect = 1.2
Identities = 28/31 (90%)
Strand = Plus / Plus

Query: 9197 gggtcgatgcaacattattcttaataaggg 9227
 ||||||||||||| ||| |||||||||||||
Sbjct: 17591 gggtcgatgcaacgctatccttaataaggg 17621

>NODE_10_length_222279_cov_9.401747

Length = 222279

Score = 56.0 bits (28), Expect = 5e-06

Identities = 37/40 (92%)

Strand = Plus / Minus

Query: 61623 ttttatgtcgggtggcggctaccgccttaccgacttaca 61662
 ||||| |||||||||||||||| ||||||||||||||| |||||
Sbjct: 23475 ttttgtgtcgggtggcggctaacgccttaccgacctaca 23436

>NODE_12_length_196820_cov_8.472076
 Length = 196820

Score = 54.0 bits (27), Expect = 2e-05

Identities = 33/35 (94%)

Strand = Plus / Minus

Query: 61511 acctatatattcccggcacctataacaacggtaacgt 61545
 |||||||||||||||||| || |||||||||||||
Sbjct: 66455 acctatatattcccggcacctacaataacggtaacgt 66421

Score = 54.0 bits (27), Expect = 2e-05

Identities = 33/35 (94%)

Strand = Plus / Plus

Query: 61628 tgtcgggtggcggctaccgccttaccgacttaca 61662
 |||||||||||||||||| ||||||||||||||| |||||
Sbjct: 113397 tgtcgggtggcggctaacgccttaccgacctaca 113431

Score = 38.2 bits (19), Expect = 1.2

Identities = 19/19 (100%)

Strand = Plus / Minus

Query: 61342 cggctacggctgggagaaa 61360
 ||||||||||||||||||
Sbjct: 66621 cggctacggctgggagaaa 66603

>NODE_11_length_214047_cov_8.768119
 Length = 214047

Score = 54.0 bits (27), Expect = 2e-05

Identities = 33/35 (94%)

Strand = Plus / Minus

Query: 61623 ttttatgtcgggtggcggctaccgccttaccgac 61657
 ||||| |||||||||||||||| |||||||||||||||
Sbjct: 37656 ttttttgtcgggtggcggctaacgccttaccgac 37622

Score = 40.1 bits (20), Expect = 0.31
Identities = 23/24 (95%)
Strand = Plus / Plus

Query: 30689 aaaaaaagcccgccagcggcgggc 30712
 |||||
Sbjct: 6825 aaaaaaagcccgccaacggcgggc 6848

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 63539 aaagccgctgaccacggt 63556
 |||||
Sbjct: 33186 aaagccgctgaccacggt 33169

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 7838 tggtggatgattttaacc 7855
 |||||
Sbjct: 202242 tggtggatgattttaacc 202259

>NODE_8_length_247549_cov_9.773464
Length = 247549

Score = 48.1 bits (24), Expect = 0.001
Identities = 33/36 (91%)
Strand = Plus / Minus

Query: 61622 gttttatgtcgggtggcggtaccgccttaccgcac 61657
 |||||
Sbjct: 122099 gttttttgtcgggtggcggtaccgccttaccgcac 122064

Score = 42.1 bits (21), Expect = 0.079
Identities = 24/25 (96%)
Strand = Plus / Plus

Query: 1798 ccgatgacatgagcgctctggaagc 1822
 |||||
Sbjct: 119163 ccgatgccatgagcgctctggaagc 119187

```
Query: 10874 atcgccctttgaccgcttcc 10892
      |||||
Sbjct: 60238 atcgccctttgaccgcttcc 60220
```

```
Query: 5317   cccgctgctgccggtaaa 5334
          |||||
Sbjct: 44154 cccgctgctgccggtaaa 44137
```

```
Query: 12012      gatgaaggccaggtgatac 12029
          |||||
Sbjct: 175520    gatgaaggccaggtgatac 175503
```

Score = 46.1 bits (23), Expect = 0.005
Identities = 32/35 (91%)
Strand = Plus / Minus

Score = 38.2 bits (19), Expect = 1.2
Identities = 19/19 (100%)
Strand = Plus / Minus

```
Query: 24553  gggtgacgtcctgaccacc  24571
             |||||
Sbjct: 66034  gggtgacgtcctgaccacc  66016
```

>NODE_31_length_45171_cov_18.968520
Length = 45171

Score = 42.1 bits (21), Expect = 0.079
Identities = 24/25 (96%)
Strand = Plus / Minus

Query: 60393 aatttttcaatatccaaactgacccc 60417
 ||||||| |||||||||||||||||
Sbjct: 507 aatttttcgatatccaaactgacccc 483

Score = 36.2 bits (18), Expect = 4.9
Identities = 21/22 (95%)
Strand = Plus / Plus

Query: 17346 agggcgctcacttccggcgcca 17367
 ||||||| |||||||||||||||||
Sbjct: 25185 agggcgctgacttccggcgcca 25206

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 51547 cagcgctcgccagctcag 51564
 |||||||||||||||||||
Sbjct: 39912 cagcgctcgccagctcag 39929

>NODE_2_length_478638_cov_9.783182
Length = 478638

Score = 40.1 bits (20), Expect = 0.31
Identities = 20/20 (100%)
Strand = Plus / Minus

Query: 36652 gctaaacgaggccatgccat 36671
 |||||||||||||||||||
Sbjct: 337271 gctaaacgaggccatgccat 337252

Score = 38.2 bits (19), Expect = 1.2
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 36424 attatcgccacgctggcga 36442

|||||
Sbjct: 10414 attatcgccacgctggcga 10396

Score = 38.2 bits (19), Expect = 1.2
Identities = 37/43 (86%)
Strand = Plus / Plus

Query: 62768 cctgggcagtgctcacgcccctcacgtactgcgtgtacgctcc 62810
 ||||| ||||| | || ||||| |||||
Sbjct: 53789 cctgggctgtgctcgcccctgtcacgtacttcgtgtacgctcc 53831

Score = 38.2 bits (19), Expect = 1.2
Identities = 31/35 (88%)
Strand = Plus / Plus

Query: 61628 tgtcgggtggcggctaccgccttaccgacttaca 61662
 ||||| ||||| ||||| |||||
Sbjct: 132823 tgtcgggtggcggcttacgcctgaccgacactaca 132857

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 28387 agttccgcagacgcctga 28404
 |||||
Sbjct: 27042 agttccgcagacgcctga 27025

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 28581 ccagcatgagcgccagag 28598
 |||||
Sbjct: 171182 ccagcatgagcgccagag 171199

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 23448 tgtatgaagtcggcaccg 23465
 |||||

Sbjct: 379681 tgtatgaagtcggcaccg 379698

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 56709 ccgtgctctttaatcagc 56726
 |||||
Sbjct: 447685 ccgtgctctttaatcagc 447668

>NODE_37_length_21672_cov_17.473938
 Length = 21672

Score = 38.2 bits (19), Expect = 1.2
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 1278 acattattcgcttctatca 1296
 |||||
Sbjct: 6989 acattattcgcttctatca 7007

>NODE_18_length_93281_cov_10.372534
 Length = 93281

Score = 38.2 bits (19), Expect = 1.2
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 3489 ttatggattatcctttttt 3507
 |||||
Sbjct: 73321 ttatggattatcctttttt 73339

>NODE_9_length_237731_cov_8.189807
 Length = 237731

Score = 38.2 bits (19), Expect = 1.2
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 37115 cgctggcagcgctggcggtt 37133
 |||||
Sbjct: 87426 cgctggcagcgctggcggtt 87444

Score = 38.2 bits (19), Expect = 1.2
Identities = 19/19 (100%)

Strand = Plus / Plus

Query: 8193 ctgcgccgcctgcgccagc 8211
 |||||||
Sbjct: 191214 ctgcgccgcctgcgccagc 191232

Score = 38.2 bits (19), Expect = 1.2
Identities = 19/19 (100%)
Strand = Plus / Plus

Query: 59368 ctgcgccgcctgcgccagc 59386
 |||||||
Sbjct: 191214 ctgcgccgcctgcgccagc 191232

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 36029 acgcgacggcgaccttta 36046
 |||||||
Sbjct: 92228 acgcgacggcgaccttta 92245

>NODE_5_length_361067_cov_9.330210
 Length = 361067

Score = 38.2 bits (19), Expect = 1.2
Identities = 19/19 (100%)
Strand = Plus / Minus

Query: 15546 gctgaaagcgattgacgcc 15564
 |||||||
Sbjct: 182162 gctgaaagcgattgacgcc 182144

>NODE_26_length_62505_cov_11.128427
 Length = 62505

Score = 36.2 bits (18), Expect = 4.9
Identities = 27/30 (90%)
Strand = Plus / Plus

Query: 62754 tttgctatTTTgctcctgggcagtgctcac 62783
 ||||| ||||| |||||
Sbjct: 12462 tttgccatTTTgaacctgggcagtgctcac 12491

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 45416 cattttttttaaaaaattt 45433
 |||||||
Sbjct: 56580 cattttttttaaaaaattt 56563

>NODE_25_length_69837_cov_10.709066
 Length = 69837

Score = 36.2 bits (18), Expect = 4.9
Identities = 21/22 (95%)
Strand = Plus / Minus

Query: 59133 tgatctcctccctgaaaacagt 59154
 |||||||
Sbjct: 56737 tgatctcctcccgaaaacagt 56716

Score = 36.2 bits (18), Expect = 4.9
Identities = 21/22 (95%)
Strand = Plus / Minus

Query: 7958 tgatctcctccctgaaaacagt 7979
 |||||||
Sbjct: 56737 tgatctcctcccgaaaacagt 56716

>NODE_13_length_165527_cov_10.023307
 Length = 165527

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 55141 aagaccgacatcgccagc 55158
 |||||||
Sbjct: 13630 aagaccgacatcgccagc 13613

>NODE_7_length_272670_cov_9.299336
 Length = 272670

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 37432 ccgatcctgattaaccgt 37449
 |||||||
Sbjct: 16091 ccgatcctgattaaccgt 16074

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 38100 acatggtgagcatagata 38117
 |||||
Sbjct: 43774 acatggtgagcatagata 43791

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 37290 cgatgagctggtcaaact 37307
 |||||
Sbjct: 226725 cgatgagctggtcaaact 226708

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Minus

Query: 17001 acgccgccagcttcagcc 17018
 |||||
Sbjct: 264784 acgccgccagcttcagcc 264767

>NODE_6_length_356231_cov_9.759612
 Length = 356231

Score = 36.2 bits (18), Expect = 4.9
Identities = 18/18 (100%)
Strand = Plus / Plus

Query: 26331 gaagatgaaatgatttct 26348
 |||||
Sbjct: 327025 gaagatgaaatgatttct 327042

Database: /vol/rast-prod/jobs/697071/rp/573.23855/contigs
Posted date: Mar 14, 2019 5:46 AM
Number of letters in database: 5,874,982
Number of sequences in database: 128

Lambda	K	H
1.37	0.711	1.31

Gapped

Lambda	K	H
1.37	0.711	1.31

Matrix: blastn matrix:1 -3

Gap Penalties: Existence: 5, Extension: 2

Number of Sequences: 128

Number of Hits to DB: 609,156

Number of extensions: 178

Number of successful extensions: 178

Number of sequences better than 10.0: 31

Number of HSP's gapped: 144

Number of HSP's successfully gapped: 144

Length of query: 64537

Length of database: 5,874,982

Length adjustment: 20

Effective length of query: 64517

Effective length of database: 5,872,422

Effective search space: 378871050174

Effective search space used: 378871050174

X1: 11 (21.8 bits)

X2: 15 (29.7 bits)

X3: 50 (99.1 bits)

S1: 18 (36.2 bits)

S2: 18 (36.2 bits)