



The SEED Viewer

SEED Viewer version 2.0

Welcome to the SEED Viewer - a read-only browser of the curated SEED data.
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find



Group18 Cperf

Mark region in Genome Browser

[Contig NODE 32 length 43518 cov 20.448595 hit #1](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #2](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #3](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #4](#)
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[Contig NODE 32 length 43518 cov 20.448595 hit #9](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #10](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #11](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #12](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #13](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #14](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #15](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #16](#)
[Contig NODE 32 length 43518 cov 20.448595 hit #17](#)

[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 31 length 45171 cov 18.968520 hit #4](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #5](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #6](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #7](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #8](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #9](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #10](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #11](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #12](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #13](#)
[Contig NODE 31 length 45171 cov 18.968520 hit #14](#)

[Contig NODE 44 length 1057 cov 84.511828 hit #1](#)
[Contig NODE 44 length 1057 cov 84.511828 hit #2](#)
[Contig NODE 44 length 1057 cov 84.511828 hit #3](#)

[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 23 length 71673 cov 15.369161 hit #9](#)
[Contig NODE 23 length 71673 cov 15.369161 hit #10](#)
[Contig NODE 23 length 71673 cov 15.369161 hit #11](#)

[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 27 length 62334 cov 15.396226 hit #5](#)

[Contig NODE 27 length 62334 cov 15.396226 hit #6](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #7](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #8](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #9](#)
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[Contig NODE 27 length 62334 cov 15.396226 hit #13](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #14](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #15](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #16](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #17](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #18](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #19](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #20](#)
[Contig NODE 27 length 62334 cov 15.396226 hit #21](#)

[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](#)
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[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 1 length 566821 cov 8.393009 hit #17](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #18](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #19](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #20](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #21](#)
[Contig NODE 1 length 566821 cov 8.393009 hit #22](#)

[Contig NODE 28 length 56662 cov 9.648147 hit #1](#)
[Contig NODE 28 length 56662 cov 9.648147 hit #2](#)

[Contig NODE 25 length 69837 cov 10.709066 hit #1](#)
[Contig NODE 25 length 69837 cov 10.709066 hit #2](#)
[Contig NODE 25 length 69837 cov 10.709066 hit #3](#)
[Contig NODE 25 length 69837 cov 10.709066 hit #4](#)

[Contig NODE 20 length 85165 cov 8.967991 hit #1](#)
[Contig NODE 20 length 85165 cov 8.967991 hit #2](#)

[Contig NODE 13 length 165527 cov 10.023307 hit #1](#)
[Contig NODE 13 length 165527 cov 10.023307 hit #2](#)
[Contig NODE 13 length 165527 cov 10.023307 hit #3](#)

[Contig NODE 5 length 361067 cov 9.330210 hit #1](#)
[Contig NODE 5 length 361067 cov 9.330210 hit #2](#)

[Contig NODE 46 length 1018 cov 16.254770 hit #1](#)
[Contig NODE 46 length 1018 cov 16.254770 hit #2](#)

[Contig NODE 35 length 27820 cov 67.851804 hit #1](#)
[Contig NODE 35 length 27820 cov 67.851804 hit #2](#)
[Contig NODE 35 length 27820 cov 67.851804 hit #3](#)

[Contig NODE 29 length 49941 cov 9.629522 hit #1](#)
[Contig NODE 29 length 49941 cov 9.629522 hit #2](#)

[Contig NODE 15 length 121110 cov 9.734285 hit #1](#)
[Contig NODE 15 length 121110 cov 9.734285 hit #2](#)
[Contig NODE 15 length 121110 cov 9.734285 hit #3](#)

[Contig NODE 37 length 21672 cov 17.473938 hit #1](#)
[Contig NODE 37 length 21672 cov 17.473938 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](#)
[Contig NODE 3 length 470369 cov 9.494788 hit #5](#)
[Contig NODE 3 length 470369 cov 9.494788 hit #6](#)
[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 3 length 470369 cov 9.494788 hit #10](#)

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

[Contig NODE 4 length 398729 cov 7.868694 hit #1](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #2](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #3](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #4](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #5](#)
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[Contig NODE 4 length 398729 cov 7.868694 hit #11](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #12](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #13](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #14](#)
[Contig NODE 4 length 398729 cov 7.868694 hit #15](#)

[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 9 length 237731 cov 8.189807 hit #5](#)
[Contig NODE 9 length 237731 cov 8.189807 hit #6](#)

[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 7 length 272670 cov 9.299336 hit #5](#)
[Contig NODE 7 length 272670 cov 9.299336 hit #6](#)
[Contig NODE 7 length 272670 cov 9.299336 hit #7](#)
[Contig NODE 7 length 272670 cov 9.299336 hit #8](#)

[Contig NODE 41 length 1953 cov 14.457831 hit #1](#)
[Contig NODE 41 length 1953 cov 14.457831 hit #2](#)
[Contig NODE 41 length 1953 cov 14.457831 hit #3](#)

[Contig NODE 98 length 314 cov 0.240642 hit #1](#)

[Contig NODE 14 length 153665 cov 8.989794 hit #1](#)

[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 11 length 214047 cov 8.768119 hit #5](#)

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

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

[Contig NODE 6 length 356231 cov 9.759612 hit #1](#)
[Contig NODE 6 length 356231 cov 9.759612 hit #2](#)

[Contig NODE 2 length 478638 cov 9.783182 hit #1](#)
[Contig NODE 2 length 478638 cov 9.783182 hit #2](#)
[Contig NODE 2 length 478638 cov 9.783182 hit #3](#)
[Contig NODE 2 length 478638 cov 9.783182 hit #4](#)
[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](#)
[Contig NODE 2 length 478638 cov 9.783182 hit #8](#)
[Contig NODE 2 length 478638 cov 9.783182 hit #9](#)

[Contig NODE 30 length 48292 cov 15.609924 hit #1](#)

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

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

[Contig NODE 8 length 247549 cov 9.773464 hit #1](#)
[Contig NODE 8 length 247549 cov 9.773464 hit #2](#)
[Contig NODE 8 length 247549 cov 9.773464 hit #3](#)

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= NC_011281.1
(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
NODE_32_length_43518_cov_20.448595	8.627e+04	0.0
NODE_31_length_45171_cov_18.968520	2.089e+04	0.0
NODE_44_length_1057_cov_84.511828	2095	0.0
NODE_23_length_71673_cov_15.369161	1086	0.0
NODE_27_length_62334_cov_15.396226	771	0.0
NODE_1_length_566821_cov_8.393009	254	1e-65
NODE_28_length_56662_cov_9.648147	252	4e-65
NODE_25_length_69837_cov_10.709066	252	4e-65
NODE_20_length_85165_cov_8.967991	252	4e-65
NODE_13_length_165527_cov_10.023307	252	4e-65
NODE_5_length_361067_cov_9.330210	252	4e-65
NODE_46_length_1018_cov_16.254770	250	2e-64

NODE_35_length_27820_cov_67.851804	250	2e-64
NODE_29_length_49941_cov_9.629522	250	2e-64
NODE_15_length_121110_cov_9.734285	250	2e-64
NODE_37_length_21672_cov_17.473938	248	7e-64
NODE_3_length_470369_cov_9.494788	190	1e-46
NODE_16_length_96205_cov_11.645944	172	3e-41
NODE_4_length_398729_cov_7.868694	100	4e-19
NODE_9_length_237731_cov_8.189807	88	1e-15
NODE_7_length_272670_cov_9.299336	74	2e-11
NODE_41_length_1953_cov_14.457831	54	2e-05
NODE_98_length_314_cov_0.240642	48	0.001
NODE_14_length_153665_cov_8.989794	44	0.020
NODE_11_length_214047_cov_8.768119	42	0.079
NODE_12_length_196820_cov_8.472076	40	0.31
NODE_42_length_1203_cov_15.188662	38	1.2
NODE_6_length_356231_cov_9.759612	38	1.2
NODE_2_length_478638_cov_9.783182	38	1.2
NODE_30_length_48292_cov_15.609924	36	4.9
NODE_18_length_93281_cov_10.372534	36	4.9
NODE_10_length_222279_cov_9.401747	36	4.9
NODE_8_length_247549_cov_9.773464	36	4.9

>NODE_32_length_43518_cov_20.448595
Length = 43518

Score = 8.627e+04 bits (43518), Expect = 0.0
Identities = 43518/43518 (100%)
Strand = Plus / Minus

Query: 14967 ctatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgc 15026
|||||
Sbjct: 43518 ctatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgc 43459

Query: 15027 gtattgcctgaaaacacaacccgctacgggggagacttaccgaaatctgatttattcaa 15086
|||||
Sbjct: 43458 gtattgcctgaaaacacaacccgctacgggggagacttaccgaaatctgatttattcaa 43399

Query: 15087 caaagccgcatatagttcaagagcttacaatctctaagttctgcataaatcctcaataga 15146
|||||
Sbjct: 43398 caaagccgcatatagttcaagagcttacaatctctaagttctgcataaatcctcaataga 43339

Query: 15147 aaccatactttttattatggtgtgatggatatactcgcagacagtccagccaccaattca 15206
|||||
Sbjct: 43338 aaccatactttttattatggtgtgatggatatactcgcagacagtccagccaccaattca 43279

Query: 15207 actccctccggcaatctgtcaatatgaatccgaaccgggatacgtgcgcgagccgcacc 15266
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Sbjct: 43278 actccctccggcaatctgtcaatatgaatccgaaccgggatacgtgcgcgagccgcacc 43219

Query: 15267 cagctaaaggttggtcgcacattaggcaggccaagcccccggtctcgtcattgttatca 15326
|||||
Sbjct: 43218 cagctaaaggttggtcgcacattaggcaggccaagcccccggtctcgtcattgttatca 43159

Query: 15327 tctattccgcgcccgcatactctcaacatgccccgtgatcaccggcttaaattcccatcagc 15386
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Sbjct: 43158 tctattccgcgcccgcatactctcaacatgccccgtgatcaccggcttaaattcccatcagc 43099

Query: 15387 gtaatgtgtgcagtatttcccggtgcggatatggtgcaacttagtctcttcaaaatagcca 15446
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Sbjct: 43098 gtaatgtgtgcagtatttcccggtgcggatatggtgcaacttagtctcttcaaaatagcca 43039

Query: 15447 accacccaaaaactattggcatcaatgatggaaagtttagtttctcccgtgtggcatag 15506
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 Sbjct: 43038 accacccaaaaactattggcatcaatgatggaaagtttagtttctcccgtgtggcatag 42979

Query: 15507 tcaccagggcggaagccgcaaagtgtgtgacatagcccgtaacgggagagcgaacaatagca 15566
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 Sbjct: 42978 tcaccagggcggaagccgcaaagtgtgtgacatagcccgtaacgggagagcgaacaatagca 42919

Query: 15567 tgcgataagttaagctctgcaaggtccagcgcagccagtgacccgtggtaattagccgca 15626
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 Sbjct: 42918 tgcgataagttaagctctgcaaggtccagcgcagccagtgacccgtggtaattagccgca 42859

Query: 15627 gcgacgcttgctgcgctggctgtttgttgtaaatacctcgctggaaatcacccctttaatc 15686
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 Sbjct: 42858 gcgacgcttgctgcgctggctgtttgttgtaaatacctcgctggaaatcacccctttaatc 42799

Query: 15687 tgagagcgtcgctcgccgcatcctggcgcatcagcatttcacgacgtttcgccctcaaca 15746
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Query: 15747 tcagcctgggcgctgaccactgccaacctcaaccagtgcggtcaatggaatagagcaca 15806
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 Sbjct: 42738 tcagcctgggcgctgaccactgccaacctcaaccagtgcggtcaatggaatagagcaca 42679

Query: 15807 tcgccccgattaacccactgattatcgcgacggccacattcagaaccgggtccagagaca 15866
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 Sbjct: 42678 tcgccccgattaacccactgattatcgcgacggccacattcagaaccgggtccagagaca 42619

Query: 15867 tccggcgcaatctggaccacatccgcacgaacccgaccatcgcggtccagggagtttgc 15926
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 Sbjct: 42618 tccggcgcaatctggaccacatccgcacgaacccgaccatcgcggtccagggagtttgc 42559

Query: 15927 acataatgtttccagagaataaaagccaaaagcgtagcaaccgccacagcgctgagcgctc 15986
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 Sbjct: 42558 acataatgtttccagagaataaaagccaaaagcgtagcaaccgccacagcgctgagcgctc 42499

Query: 15987 agcaaatagcggcccagtagagaaagtaacgattttcattttaaaaaccccagttcgggtca 16046
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 Sbjct: 42498 agcaaatagcggcccagtagagaaagtaacgattttcattttaaaaaccccagttcgggtca 42439

Query: 16047 gtccctgcaacaacaggtaaaaagtaataataaagatggaaaaatcgatcatcgggcgaa 16106
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 Sbjct: 42438 gtccctgcaacaacaggtaaaaagtaataataaagatggaaaaatcgatcatcgggcgaa 42379

Query: 16107 acggcaagcgacggtaacccttgcttagcgagaaaagctgcacgagtaatagcggtacagg 16166
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 Sbjct: 42378 acggcaagcgacggtaacccttgcttagcgagaaaagctgcacgagtaatagcggtacagg 42319

Query: 16167 tgagcgcgacgagggaaattaacagtagaccgggtacaaaaacgccctcaatattgaaat 16226
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 Sbjct: 42318 tgagcgcgacgagggaaattaacagtagaccgggtacaaaaacgccctcaatattgaaat 42259

Query: 16227 cattgatcatcggcatgctccatttcctgagtgttaatgcgcagtacagatcaaccagt 16286
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Sbjct: 42258 cattgatcatcggcatgctccatttctgagtgcttaatgcgcagtacagatcaaccagt 42199

Query: 16287 tgattaacatgatgccgcgatagttcatctgctacggacaggctacgctcagtcaggctg 16346
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Sbjct: 42198 tgattaacatgatgccgcgatagttcatctgctacggacaggctacgctcagtcaggctg 42139

Query: 16347 acaatccgttcaagtaagggtgtaatatccgctcgagtggtgaagacaagtgagaacctct 16406
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Sbjct: 42138 acaatccgttcaagtaagggtgtaatatccgctcgagtggtgaagacaagtgagaacctct 42079

Query: 16407 tttatttctttgtctgcatgcgcacatcccatcggcgtaatcgcatcacacaggcctata 16466
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Sbjct: 42078 tttatttctttgtctgcatgcgcacatcccatcggcgtaatcgcatcacacaggcctata 42019

Query: 16467 cgcagggtgtgcaaaagatgattcaatgcctgttctgatgactgtccgctgcgcggcaaa 16526
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Sbjct: 42018 cgcagggtgtgcaaaagatgattcaatgcctgttctgatgactgtccgctgcgcggcaaa 41959

Query: 16527 cgcggtagtatcaacgcagcccgatcgatcatcaggttgatccagagagtttcatcagta 16586
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Sbjct: 41958 cgcggtagtatcaacgcagcccgatcgatcatcaggttgatccagagagtttcatcagta 41899

Query: 16587 ttcaacacacctttcacgctgcgggttaatatcgcgctggcataatttaagcaggcggttt 16646
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Sbjct: 41898 ttcaacacacctttcacgctgcgggttaatatcgcgctggcataatttaagcaggcggttt 41839

Query: 16647 attgccgcatctgcctgcacagtctgcagaaagcccatgctgaataaccgcaaagccagtt 16706
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Sbjct: 41838 attgccgcatctgcctgcacagtctgcagaaagcccatgctgaataaccgcaaagccagtt 41779

Query: 16707 gcagaaaataatgcgatagaggtattcaccgccacggcaaaatccccgctgtaatgagca 16766
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Sbjct: 41778 gcagaaaataatgcgatagaggtattcaccgccacggcaaaatccccgctgtaatgagca 41719

Query: 16767 cccagctcgcaaaaataggcagcgctcagtgatccccatcgccataaaagtagtgggc 16826
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 Sbjct: 2478 aaatagctcatgaagatgccggtcgaaatgatgaccactcagtttcatgctggctgcgt 2419

Query: 56067 agtaaatacacgcacgtcaatctgcgctcgaaatgtcttgtggactgccacgtccgatg 56126
 |||||
 Sbjct: 2418 agtaaatacacgcacgtcaatctgcgctcgaaatgtcttgtggactgccacgtccgatg 2359

Query: 56127 gcatcaaaatcggcaccaaactgccatggaaaatagcgtggaattcgcgcctgcagggcc 56186
 |||||
 Sbjct: 2358 gcatcaaaatcggcaccaaactgccatggaaaatagcgtggaattcgcgcctgcagggcc 2299

Query: 56187 gcctgcgccagtttcattggtgtatttattccggccgcgtaccccgctgcagccaacgact 56246
 |||||
 Sbjct: 2298 gcctgcgccagtttcattggtgtatttattccggccgcgtaccccgctgcagccaacgact 2239

Query: 56247 gtgtcaaattgcgcaaagaggtggccaaatcgtcgacagaactcatgacgagatcgccc 56306
 |||||
 Sbjct: 2238 gtgtcaaattgcgcaaagaggtggccaaatcgtcgacagaactcatgacgagatcgccc 2179

Query: 56307 gtgactatattaataaccgaggtttctgatttccgtgataactaatttttttacaggttca 56366
 |||||
 Sbjct: 2178 gtgactatattaataaccgaggtttctgatttccgtgataactaatttttttacaggttca 2119

Query: 56367 tctgacgttacggtactttcgcgcagcagtacgctgattttcgttccctccacatctttt 56426
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 Sbjct: 2118 tctgacgttacggtactttcgcgcagcagtacgctgattttcgttccctccacatctttt 2059

Query: 56427 gcccgaagggcaagatttcgcgagaacggggaggcccagctcaccggcaccgagcacgagg 56486
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 Sbjct: 2058 gcccgaagggcaagatttcgcgagaacggggaggcccagctcaccggcaccgagcacgagg 1999

Query: 56487 attttctcagacgtagcgttaagatcagttttgttcataatctggccttacatgaattgt 56546
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 Sbjct: 1998 attttctcagacgtagcgttaagatcagttttgttcataatctggccttacatgaattgt 1939

Query: 56547 tgcgccactctagcaattcataacaggctaaaaaagaaggtacacgtatgataccgggaa 56606
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 Sbjct: 1938 tgcgccactctagcaattcataacaggctaaaaaagaaggtacacgtatgataccgggaa 1879

Query: 56607 tctgtgaaatggatcgggacgaaattcttcagtattcgcaggctgtttgtaagggctga 56666
 |||||
 Sbjct: 1878 tctgtgaaatggatcgggacgaaattcttcagtattcgcaggctgtttgtaagggctga 1819

Query: 56667 gagacgatgatgatggcttgcgcgagggtactggctcatgcaggcagtcgatgggtcac 56726
 |||||
 Sbjct: 1818 gagacgatgatgatggcttgcgcgagggtactggctcatgcaggcagtcgatgggtcac 1759

Query: 56727 tgggtatcgtaacacgcttggcgtttatggcagactacgtcacgccgaaattggcaggc 56786
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 Sbjct: 1758 tgggtatcgtaacacgcttggcgtttatggcagactacgtcacgccgaaattggcaggc 1699

Query: 56787 gtatgcacggagtgactcagcgcatgctgacacgtacattacgacagcttgagcgcgacg 56846
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 Sbjct: 1698 gtatgcacggagtgactcagcgcatgctgacacgtacattacgacagcttgagcgcgacg 1639

Query: 56847 gactggttattcgccatgatttcagtgaaatcccgccacgagtcgaatacagagctgtccg 56906
|||||
Sbjct: 1638 gactggttattcgccatgatttcagtgaaatcccgccacgagtcgaatacagagctgtccg 1579

Query: 56907 atacaggtatggagttgcttgtgcgaatgatcccgtgtggacctggattgtcgataatg 56966
|||||
Sbjct: 1578 atacaggtatggagttgcttgtgcgaatgatcccgtgtggacctggattgtcgataatg 1519

Query: 56967 ctgatcgcttttcgtgaagaccggttgagatatgaaaaaataacaataacccaagggcgt 57026
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Sbjct: 1518 ctgatcgcttttcgtgaagaccggttgagatatgaaaaaataacaataacccaagggcgt 1459

Query: 57027 aactggctatgaatataaataatcactttttgtgattttagataatacaagtgtttgaat 57086
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Sbjct: 1458 aactggctatgaatataaataatcactttttgtgattttagataatacaagtgtttgaat 1399

Query: 57087 tgatgagcctttcgatatgtatgtatacagtagtcatccggagacagaaccgatttcacc 57146
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Sbjct: 1398 tgatgagcctttcgatatgtatgtatacagtagtcatccggagacagaaccgatttcacc 1339

Query: 57147 aagcttggtcgggatggtgtaattacagaggattatattttacgtatgtctgacatcaat 57206
|||||
Sbjct: 1338 aagcttggtcgggatggtgtaattacagaggattatattttacgtatgtctgacatcaat 1279

Query: 57207 gttagtctgtacatatttcaaataagggtgttaaagcgaattttatttttctaccattaa 57266
|||||
Sbjct: 1278 gttagtctgtacatatttcaaataagggtgttaaagcgaattttatttttctaccattaa 1219

Query: 57267 ttcggccttgaaaattatctgacaggatggcctaccctttcagaattataggtgggctgg 57326
|||||
Sbjct: 1218 ttcggccttgaaaattatctgacaggatggcctaccctttcagaattataggtgggctgg 1159

Query: 57327 tgaaacaatatttaaaaactggtgtttttttatgatttctaagaaaaataatgaaatatc 57386
|||||
Sbjct: 1158 tgaaacaatatttaaaaactggtgtttttttatgatttctaagaaaaataatgaaatatc 1099

Query: 57387 ttctaattatcatgatcttcctgggttatgttcatggggcgaaaattatccaagtgcctt 57446
|||||
Sbjct: 1098 ttctaattatcatgatcttcctgggttatgttcatggggcgaaaattatccaagtgcctt 1039

Query: 57447 gactaaaaccctatagataaatattagtgtgtggtttatgagacagtaaaaaaaactcg 57506
|||||
Sbjct: 1038 gactaaaaccctatagataaatattagtgtgtggtttatgagacagtaaaaaaaactcg 979

Query: 57507 ttctgtcaggcaattgcatatgtcttttctgttcctcgtaccaacattttgaaaccagg 57566
|||||
Sbjct: 978 ttctgtcaggcaattgcatatgtcttttctgttcctcgtaccaacattttgaaaccagg 919

Query: 57567 tatcattttattttcctgggggaggggtttatgaccgctgaacacaacaaatttgaggagat 57626
|||||
Sbjct: 918 tatcattttattttcctgggggaggggtttatgaccgctgaacacaacaaatttgaggagat 859

Query: 57627 gcgcattggcttttagcggagggtggtttgtgttgacgcggcagaatacaggacaattcc 57686
|||||

Sbjct: 858 gcgcatggcttttagcggaggtggctttgttggtgcagcggcagaatacaggacaattcc 799

Query: 57687 tgatactttccctgcgccagtgatagatgctaaagcagcagtaagataccttcgtcaaca 57746
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 798 tgatactttccctgcgccagtgatagatgctaaagcagcagtaagataccttcgtcaaca 739

Query: 57747 tgcccatgattatggcattgacccctcacgaattggtgtaattggcgattctgctggagg 57806
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 738 tgcccatgattatggcattgacccctcacgaattggtgtaattggcgattctgctggagg 679

Query: 57807 ctggctggcgagatgcttgggtaccactaatggcgataagtcattcgatcacggcgattt 57866
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 678 ctggctggcgagatgcttgggtaccactaatggcgataagtcattcgatcacggcgattt 619

Query: 57867 tctcagccagtcgctgatgtgcaggctgtcgctacgctttacggaatatcagatctgcg 57926
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 618 tctcagccagtcgctgatgtgcaggctgtcgctacgctttacggaatatcagatctgcg 559

Query: 57927 taacataggtgacggttttccggatctccgacaaaaagtcacagtcctctgcagtcac 57986
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 558 taacataggtgacggttttccggatctccgacaaaaagtcacagtcctctgcagtcac 499

Query: 57987 ggagtcactgctaattaatggtgtggctttcaagaattttgcagggtgcctcaatcagttc 58046
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 498 ggagtcactgctaattaatggtgtggctttcaagaattttgcagggtgcctcaatcagttc 439

Query: 58047 tgtacctgaaaaagcgataaatgcaagccccatagggcgctctcaagggatgtaaacctcc 58106
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 438 tgtacctgaaaaagcgataaatgcaagccccatagggcgctctcaagggatgtaaacctcc 379

Query: 58107 gttcctaataatgcatggaagtaaggatacattagtagtatcacctaaacagagcgcaacgct 58166
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 378 gttcctaataatgcatggaagtaaggatacattagtagtatcacctaaacagagcgcaacgct 319

Query: 58167 ttacaaagcccttttggaaatcgggaaacaaagcggactacgtccttatcgaaggcgcaga 58226
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 318 ttacaaagcccttttggaaatcgggaaacaaagcggactacgtccttatcgaaggcgcaga 259

Query: 58227 acacggtgatgatcactgggtatcaaccggtgtcataaatagggtgttgactgggtccg 58286
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 258 acacggtgatgatcactgggtatcaaccggtgtcataaatagggtgttgactgggtccg 199

Query: 58287 cgtgcatctttgtcctgaaaatatatgacgactgacgctttgtgtaactcactcagactgt 58346
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 198 cgtgcatctttgtcctgaaaatatatgacgactgacgctttgtgtaactcactcagactgt 139

Query: 58347 ttggtagcaacgtccgcttcacgccctgagacattcgacaagctttttatggcttcagta 58406
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 138 ttggtagcaacgtccgcttcacgccctgagacattcgacaagctttttatggcttcagta 79

Query: 58407 agggcgacttttcgcgcttccagtgccagcaaatatttcgcttcgtcgtagccgggttcggg 58466
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 78 agggcgacttttcgcgcttccagtgccagcaaatatttcgcttcgtcgtagccgggttcggg 19

Query: 58467 tcttccagcagcgtaaa 58484

|||||
Sbjct: 18 tcttcagcagcggtaaa 1

Score = 694 bits (350), Expect = 0.0
Identities = 350/350 (100%)
Strand = Plus / Plus

Query: 3286 agctaccgtgttaagttccctggtgttgctgaaataactgaagaacatccccctaagcgt 3345
|||||
Sbjct: 19178 agctaccgtgttaagttccctggtgttgctgaaataactgaagaacatccccctaagcgt 19237

Query: 3346 cagcagcaagctgccgccgctaaggccccggaaatcacgccctttacgtcgtaaagcgcg 3405
|||||
Sbjct: 19238 cagcagcaagctgccgccgctaaggccccggaaatcacgccctttacgtcgtaaagcgcg 19297

Query: 3406 taaagcccgctcaccgggggttaaagggttactttaacttcttcattgctgtaagcggg 3465
|||||
Sbjct: 19298 taaagcccgctcaccgggggttaaagggttactttaacttcttcattgctgtaagcggg 19357

Query: 3466 ttaaggctaatacagggcaggggggaggggtggcagaatttatagccaggtaaccggctacg 3525
|||||
Sbjct: 19358 ttaaggctaatacagggcaggggggaggggtggcagaatttatagccaggtaaccggctacg 19417

Query: 3526 ccgggctttcggcgccatttgactccacagatacatgcagcttcattctggcgccctccatg 3585
|||||
Sbjct: 19418 ccgggctttcggcgccatttgactccacagatacatgcagcttcattctggcgccctccatg 19477

Query: 3586 ccgctaacgcggcatccgatgctgtagtctttaatgtctgctttgtgccaa 3635
|||||
Sbjct: 19478 ccgctaacgcggcatccgatgctgtagtctttaatgtctgctttgtgccaa 19527

Score = 319 bits (161), Expect = 2e-85
Identities = 161/161 (100%)
Strand = Plus / Plus

Query: 3478 agggcaggggggaggggtggcagaatttatagccaggtaaccggctacgccgggctttcgg 3537
|||||
Sbjct: 14614 agggcaggggggaggggtggcagaatttatagccaggtaaccggctacgccgggctttcgg 14673

Query: 3538 cgccatttgactccacagatacatgcagcttcattctggcgccctccatgccgctaacgcgg 3597
|||||
Sbjct: 14674 cgccatttgactccacagatacatgcagcttcattctggcgccctccatgccgctaacgcgg 14733

Query: 3598 catccgatgctgtagtctttaatgtctgctttgtgccaaat 3638
|||||
Sbjct: 14734 catccgatgctgtagtctttaatgtctgctttgtgccaaat 14774

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

Query: 5016 tttaccgctgctggaagacccgaacccggtacgacgaagcgaaatatttgctggcactgg 5075
|||||
Sbjct: 1 tttaccgctgctggaagacccgaacccggtacgacgaagcgaaatatttgctggcactgg 60

Query: 5076 aagcgcgaaagtcgcccttactgaagccataaaaagcttgtcgaatgtctcagggcggtga 5135
|||||
Sbjct: 61 aagcgcgaaagtcgcccttactgaagccataaaaagcttgtcgaatgtctcagggcggtga 120

Query: 5136 agcggac 5142
|||||
Sbjct: 121 agcggac 127

Score = 147 bits (74), Expect = 2e-33
Identities = 98/106 (92%)
Strand = Plus / Plus

Query: 623 ggcagaacctgtcaaaacagcagccggctgcgccgggtaacggcgccatttaccgcggt 682
|||||
Sbjct: 20214 ggcagaacctgtcaaaacagcagccggctgcgccgggtaacggcgccatttgcacgcagt 20273

Query: 683 actccattcaacttcagctggcgccctccatgccgctgacgcggcat 728
|||||
Sbjct: 20274 actccattcaactgctgcaggcgccctccatgccgctgacgcggcat 20319

Score = 81.8 bits (41), Expect = 9e-14
Identities = 41/41 (100%)
Strand = Plus / Minus

Query: 2891 gccttaacgtacaataattttcgatatccaaactgaccct 2931
|||||
Sbjct: 33931 gccttaacgtacaataattttcgatatccaaactgaccct 33891

Score = 75.8 bits (38), Expect = 6e-12
Identities = 47/50 (94%)
Strand = Plus / Plus

Query: 2882 caaaaaatggccttaacgtacaataattttcgatatccaaactgaccct 2931
|||||
Sbjct: 35970 caaaaaataaccttaacgtacaataattttcgatatccaaactgaccct 36019

Score = 73.8 bits (37), Expect = 2e-11
Identities = 40/41 (97%)
Strand = Plus / Plus

Query: 22465 tagggggcagtttggatatcgaaaattattgtacgttaagg 22505
 ||||| ||||||||||||||||||||||||||||||||
Sbjct: 33890 taggggtcagtttggatatcgaaaattattgtacgttaagg 33930

Score = 73.8 bits (37), Expect = 2e-11
Identities = 40/41 (97%)
Strand = Plus / Plus

Query: 24555 ccttaacgtacaataattttcgatatccaaactgacccta 24595
 ||||| |||||||||||||||||||||||||||||
Sbjct: 35980 ccttaacgtacaataattttcgatatccaaactgccccta 36020

Score = 67.9 bits (34), Expect = 1e-09
Identities = 40/42 (95%)
Strand = Plus / Plus

Query: 48112 ccctgctggctcagaggcgacatcgccctctgagccagcagg 48153
 ||||| ||||||||||||||||| |||||||||||||||||
Sbjct: 10332 ccctgctggctcagaggcgatgtcgccctctgagccagcagg 10373

Score = 67.9 bits (34), Expect = 1e-09
Identities = 74/89 (83%), Gaps = 10/89 (11%)
Strand = Plus / Plus

Query: 694 cttcagctggcgcctccatgccgctgacgcggcatccggaagtttcccatgctgtagact 753
 ||||| ||||||||||||||||||| ||||||||||||| |||||
Sbjct: 14702 cttcatctggcgcctccatgccgctaacgcggcatccg-----atgctgtagtct 14751

Query: 754 ttaacgtctgctttgtgccaaaagcggac 782
 ||||| ||||||||||||||||| |||||
Sbjct: 14752 ttaatgtctgctttgtgccaaatgcggac 14780

Score = 60.0 bits (30), Expect = 3e-07
Identities = 36/38 (94%)
Strand = Plus / Plus

Query: 694 cttcagctggcgcctccatgccgctgacgcggcatccg 731
 ||||| ||||||||||||||||||| |||||||||||||
Sbjct: 19458 cttcatctggcgcctccatgccgctaacgcggcatccg 19495

Score = 48.1 bits (24), Expect = 0.001
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 742 atgctgtagactttaacgtctgctttgtgcc 773
||||||| ||||| |||||
Sbjct: 19496 atgctgtagtctttaatgtctgctttgtgcc 19527

Score = 46.1 bits (23), Expect = 0.005
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 3574 ggcgcctccatgccgctaacgcggcat 3600
||||||| |||||
Sbjct: 20293 ggcgcctccatgccgctgacgcggcat 20319

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

Query: 14034 tgcggctttgttgaataaatc 14054
||||||| |||||
Sbjct: 43389 tgcggctttgttgaataaatc 43409

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

Query: 24598 ggcactgttgcaaagatcgt 24617
||||||| |||||
Sbjct: 33064 ggcactgttgcaaagatcgt 33083

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

Query: 25402 acgatctttgcaacagtgcc 25421
||||||| |||||
Sbjct: 33868 acgatctttgcaacagtgcc 33887

>NODE_31_length_45171_cov_18.968520
Length = 45171

Score = 2.089e+04 bits (10538), Expect = 0.0
Identities = 10538/10538 (100%)
Strand = Plus / Plus

Query: 3625 gctttgtgccaaatatagtcattcacaccctgagagttacactttttaagtgattcaggg 3684
|||||

Sbjct: 34634 gctttgtgccaaatatagtcattcacaccctgagagttacactttttaagtgattcaggg 34693

Query: 3685 atgcgcttattggttacgaatatgtgccagaatcatgtaatttgatgattgccgctttg 3744
|||||

Sbjct: 34694 atgcgcttattggttacgaatatgtgccagaatcatgtaatttgatgattgccgctttg 34753

Query: 3745 ctttcgagccagtaagtgtccacgttcgctaacgaatactcagggcatgcagaaaaact 3804
|||||

Sbjct: 34754 ctttcgagccagtaagtgtccacgttcgctaacgaatactcagggcatgcagaaaaact 34813

Query: 3805 gctgactatatttctttcgaagagcgtggaatgcataccaatccccgataaaaaggagtt 3864
|||||

Sbjct: 34814 gctgactatatttctttcgaagagcgtggaatgcataccaatccccgataaaaaggagtt 34873

Query: 3865 ggtgatgactgcgaaagatcagtttgctgcttatgttggttgactgggcagataaaaa 3924
|||||

Sbjct: 34874 ggtgatgactgcgaaagatcagtttgctgcttatgttggttgactgggcagataaaaa 34933

Query: 3925 acacgatgtctgcgttcagtttaaaaacggtgatcgcatatttcattgtgattgaacatac 3984
|||||

Sbjct: 34934 acacgatgtctgcgttcagtttaaaaacggtgatcgcatatttcattgtgattgaacatac 34993

Query: 3985 gcctgaggcacttgatatctggctcaatgagttacaccagagggcgaaaggcaggattgc 4044
|||||

Sbjct: 34994 gcctgaggcacttgatatctggctcaatgagttacaccagagggcgaaaggcaggattgc 35053

Query: 4045 tattgccgttgagctgaagaaaggcccggtggtgtatgcactccagaagtacccatttgt 4104
|||||

Sbjct: 35054 tattgccgttgagctgaagaaaggcccggtggtgtatgcactccagaagtacccatttgt 35113

Query: 4105 cactgtttttccagtacacgcgttgctcactggcccgtaccgacaggctttctggcccag 4164
|||||

Sbjct: 35114 cactgtttttccagtacacgcgttgctcactggcccgtaccgacaggctttctggcccag 35173

Query: 4165 tgggtgcgaaggatgatccgcaggatgctgagctggcattagacctgatgctacgttatcc 4224
|||||

Sbjct: 35174 tgggtgcgaaggatgatccgcaggatgctgagctggcattagacctgatgctacgttatcc 35233

Query: 4225 ccacaagataaaaagccattgaagccgacaatccggatatccgattactccagcaattagt 4284
|||||

Sbjct: 35234 ccacaagataaaaagccattgaagccgacaatccggatatccgattactccagcaattagt 35293

Query: 4285 tgagcagcgccgactgctggtcgaagacaagcgtcgctttgttaatcggtcatcaatac 4344
|||||

Sbjct: 35294 tgagcagcgccgactgctggtcgaagacaagcgtcgctttgttaatcggtcatcaatac 35353

Query: 4345 gcttaagcagtattacccccagcccctggaatggttctcccatcgggacagctcactggt 4404
 |||||
 Sbjct: 35354 gcttaagcagtattacccccagcccctggaatggttctcccatcgggacagctcactggt 35413

Query: 4405 ctgcgagctaatacttcgctggccgagctctgcaacaactcaaacgggctcgcagcgatac 4464
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 Sbjct: 35414 ctgcgagctaatacttcgctggccgagctctgcaacaactcaaacgggctcgcagcgatac 35473

Query: 4465 tgtccgtcattttatgaatgctaaaggtggctcctgctggtgcatataccgaacagcgggt 4524
 |||||
 Sbjct: 35474 tgtccgtcattttatgaatgctaaaggtggctcctgctggtgcatataccgaacagcgggt 35533

Query: 4525 tgcaagtattgccagcgctattcccctggccacagataaaaactgtcatcgaggcaaagtgc 4584
 |||||
 Sbjct: 35534 tgcaagtattgccagcgctattcccctggccacagataaaaactgtcatcgaggcaaagtgc 35593

Query: 4585 attgatggcaacagcacttgcatcccaaatcaaactgacaggcgacctagtcagaacct 4644
 |||||
 Sbjct: 35594 attgatggcaacagcacttgcatcccaaatcaaactgacaggcgacctagtcagaacct 35653

Query: 4645 cgatgaacgtattgaatccttattcgatacgcttccggatgcagaactgttcaaatact 4704
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 Sbjct: 35654 cgatgaacgtattgaatccttattcgatacgcttccggatgcagaactgttcaaatact 35713

Query: 4705 acctggaatggggccgtgtatgggcccacggatgcttgagcactgggtgataaccgcaa 4764
 |||||
 Sbjct: 35714 acctggaatggggccgtgtatgggcccacggatgcttgagcactgggtgataaccgcaa 35773

Query: 4765 ccgcttcaacagcgccgaagaaattcaaaactacgctggcatcgaccagtaaccgagcg 4824
 |||||
 Sbjct: 35774 ccgcttcaacagcgccgaagaaattcaaaactacgctggcatcgaccagtaaccgagcg 35833

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Identities = 3412/3412 (100%)

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Query: 1501 atcacaaacggcaccggcaccgaaaccgccaggtagtgctgttcacatcatataaataggtc 1560
|||||

Sbjct: 1912 atcacaaacggcaccggcaccgaaaccgccaggtagtgctgttcacatcatataaataggtc 1853

Query: 1561 tgctgacaaaaatagccgcgtttgctcccctggcagacaatcacgatccccggatcgtaa 1620
|||||

Sbjct: 1852 tgctgacaaaaatagccgcgtttgctcccctggcagacaatcacgatccccggatcgtaa 1793

Query: 1621 agcactggcgcttctggcaagtggacgatcggcacgcaatattcgcacatcaggcaatgcg 1680
|||||

Sbjct: 1792 agcactggcgcttctggcaagtggacgatcggcacgcaatattcgcacatcaggcaatgcg 1733

Query: 1681 gtaaggttatatccctcctgcaccgcaagtgctttaactaaggtaatcatcccgggcatc 1740
|||||

Sbjct: 1732 gtaaggttatatccctcctgcaccgcaagtgctttaactaaggtaatcatcccgggcatc 1673

Query: 1741 acagcacctcataaaatcaggcaagaaaaatagaagatacggcctaaaaatgcggcagga 1800
|||||

Sbjct: 1672 acagcacctcataaaatcaggcaagaaaaatagaagatacggcctaaaaatgcggcagga 1613

Query: 1801 cgtagaataccatgcaaccttcattgttcatgggagttcttttatgacatctgcaaaaac 1860
|||||

Sbjct: 1612 cgtagaataccatgcaaccttcattgttcatgggagttcttttatgacatctgcaaaaac 1553

Query: 1861 gattttaatcaccggcgtcagcagtggtttggcgtgactggcgaggaagccctcgc 1920
|||||

Sbjct: 1552 gattttaatcaccggcgtcagcagtggtttggcgtgactggcgaggaagccctcgc 1493

Query: 1921 cacaggccatcgggtcatcggtaccgtgcgagccgcgaagcacagcacgatttcgaggc 1980
|||||

Sbjct: 1492 cacaggccatcgggtcatcggtaccgtgcgagccgcgaagcacagcacgatttcgaggc 1433

Query: 1981 gcttcattcgcagcgggctttcgccgctctgctcgatatcacggactttgagcatattga 2040

Sbjct: 1432 |||
 gcttcattcgcagcgggctttcgccgctctgctcgatatcacggactttgagcatattga 1373

Query: 2041 tgaggtggttgcgagattgagtctaccgtcggtccggttgatgtgctggtgaaacaatgc 2100
 |||
 Sbjct: 1372 tgaggtggttgcgagattgagtctaccgtcggtccggttgatgtgctggtgaaacaatgc 1313

Query: 2101 cggttacggtcatgaaggcataatggaagaatcctcgctcgagagatgcgccgccagtt 2160
 |||
 Sbjct: 1312 cggttacggtcatgaaggcataatggaagaatcctcgctcgagagatgcgccgccagtt 1253

Query: 2161 tgaagtcaatgtgtttggcgcagtggaatgatcaaagccatgctaccgggcatgcgcca 2220
 |||
 Sbjct: 1252 tgaagtcaatgtgtttggcgcagtggaatgatcaaagccatgctaccgggcatgcgcca 1193

Query: 2221 gcgtcgatcatggccatattattaatatcacctcgatgggcagtttcattaccctgcccg 2280
 |||
 Sbjct: 1192 gcgtcgatcatggccatattattaatatcacctcgatgggcagtttcattaccctgcccg 1133

Query: 2281 catcagctattactgcggcagcaaatttgcgctggaaggaatatcagaaacgttaagtaa 2340
 |||
 Sbjct: 1132 catcagctattactgcggcagcaaatttgcgctggaaggaatatcagaaacgttaagtaa 1073

Query: 2341 agagctggctccgttcaacatacacgtaaccgccgtggcacctggctcgtttcgcaccga 2400
 |||
 Sbjct: 1072 agagctggctccgttcaacatacacgtaaccgccgtggcacctggctcgtttcgcaccga 1013

Query: 2401 ctgggccggacgatcgatggtacgcagcgcctcgagcatcccgactacgacgctttatt 2460
 |||
 Sbjct: 1012 ctgggccggacgatcgatggtacgcagcgcctcgagcatcccgactacgacgctttatt 953

Query: 2461 tgatccgattcgtcaggcacgtgaagaaaaagcggttaagcaactcggcgatcccgtaa 2520
 |||
 Sbjct: 952 tgatccgattcgtcaggcacgtgaagaaaaagcggttaagcaactcggcgatcccgtaa 893

Query: 2521 ggccgcacatgcatgctggcaatgattgagagtcagaaccctccaacacatttattgtt 2580
 |||
 Sbjct: 892 ggccgcacatgcatgctggcaatgattgagagtcagaaccctccaacacatttattgtt 833

Query: 2581 aggcagtgatgcattaagttagtgcgcaaaagctcgaggcattaggtaaggaaataga 2640
 |||
 Sbjct: 832 aggcagtgatgcattaagttagtgcgcaaaagctcgaggcattaggtaaggaaataga 773

Query: 2641 acaatgggaagaaataaacacgttcaacggatggctgatcagctgctgagacagagagcat 2700
 |||
 Sbjct: 772 acaatgggaagaaataaacacgttcaacggatggctgatcagctgctgagacagagagcat 713

Query: 2701 actggataatggattatggctggtcgacacagcgctcatttcgctcgggcatcatgctga 2760
 |||
 Sbjct: 712 actggataatggattatggctggtcgacacagcgctcatttcgctcgggcatcatgctga 653

Query: 2761 tgcccttgagttcagcctttttactttcaggcttccaggcttgcggtgaaatcaacttc 2820
 |||
 Sbjct: 652 tgcccttgagttcagcctttttactttcaggcttccaggcttgcggtgaaatcaacttc 593

Query: 2821 cgctcctcgctcaaagctgcctgtcaacgtgatcgatcgctcttaactcggcctggaagt 2880
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 592 cgctcctcgctcaaagctgcctgtcaacgtgatcgatcgctcttaactcggcctggaagt 533

Query: 2881 acaaaaaatggccttaacgtacaataattttcgatatccaaactgacccctcacaggccc 2940
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 532 acaaaaaatggccttaacgtacaataattttcgatatccaaactgacccctcacaggccc 473

Query: 2941 aggatgcggtgaaaaatgacgccctccggaagcgaacacatcacctcagggtccggagaga 3000
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 472 aggatgcggtgaaaaatgacgccctccggaagcgaacacatcacctcagggtccggagaga 413

Query: 3001 agcaaacacatacagccgcgtgcgtacatcgctgcagcaggaggacagactcctcaggg 3060
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 412 agcaaacacatacagccgcgtgcgtacatcgctgcagcaggaggacagactcctcaggg 353

Query: 3061 ctgaagagcagggcataaatcgaccaggggtccagaaccgctatccatatccgggaacagg 3120
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 352 ctgaagagcagggcataaatcgaccaggggtccagaaccgctatccatatccgggaacagg 293

Query: 3121 aggtacagcgagacatccgggaactgcgctaacaaccgggctctatggggatactttat 3180
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 292 aggtacagcgagacatccgggaactgcgctaacaaccgggctctatggggatactttat 233

Query: 3181 ggtatgtgggaagggccactcaccagtttctgatggtagctaatacgggaccagtccgac 3240
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 232 ggtatgtgggaagggccactcaccagtttctgatggtagctaatacgggaccagtccgac 173

Query: 3241 cgcgcacagaggcgtctgtggcggttttaagagggtatggctttgcagctaccgtgttaag 3300
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 172 cgcgcacagaggcgtctgtggcggttttaagagggtatggctttgcagctaccgtgttaag 113

Query: 3301 ttccctggtgttgctgaaataactgaagaacatccccctaagcgtcagcagcaagctgcc 3360
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 112 ttccctggtgttgctgaaataactgaagaacatccccctaagcgtcagcagcaagctgcc 53

Query: 3361 gccgctaaggccccggaaatcacgccctttacgtcgtaaacgccgtaaagcc 3412
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 52 gccgctaaggccccggaaatcacgccctttacgtcgtaaacgccgtaaagcc 1

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

Query: 39181 ggctttacggcggtttacgacgtaaagggcgatgtttccggggccttagcggcggcagctt 39240
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 1 ggctttacggcggtttacgacgtaaagggcgatgtttccggggccttagcggcggcagctt 60

Query: 39241 gctgctgacgcttagggggatgttcttcagttatttcagcaacaccagggaacttaacac 39300
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbjct: 61 gctgctgacgcttagggggatgttcttcagttatttcagcaacaccagggaacttaacac 120

Query: 39301 ggtagct 39307

|||||
Sbjct: 121 ggtagct 127

Score = 147 bits (74), Expect = 2e-33
Identities = 98/106 (92%)
Strand = Plus / Plus

Query: 38166 atgccgcgtcagcggcatggaggcgcctgcagcagttgaatggagtactgcgtgcaaatag 38225
|||||
Sbjct: 2685 atgccgcgtcagcggcatggaggcgcctgcagcagttgaatggagtaccgcgggtaatag 2744

Query: 38226 gcgccgtcgcccgccgcagccggctgctgttttgacaggttctgcc 38271
|||||
Sbjct: 2745 gcgccgttaccgcggcgcagccggctgctgttttgacaggttctgcc 2790

Score = 81.8 bits (41), Expect = 9e-14
Identities = 41/41 (100%)
Strand = Plus / Minus

Query: 24554 gccttaacgtacaataattttcgatatccaaactgaccct 24594
|||||
Sbjct: 522 gccttaacgtacaataattttcgatatccaaactgaccct 482

Score = 75.8 bits (38), Expect = 6e-12
Identities = 47/50 (94%)
Strand = Plus / Plus

Query: 22466 agggggcagtttgatatcgaaaattattgtacgttaagggtatttttg 22515
|||||
Sbjct: 482 aggggtcagtttgatatcgaaaattattgtacgttaaggccatttttg 531

Score = 67.9 bits (34), Expect = 1e-09
Identities = 74/89 (83%), Gaps = 10/89 (11%)
Strand = Plus / Plus

Query: 43705 gtccgcatttggcacaaagcagacattaaagactacagcat-----cggatgccg 43754
|||||
Sbjct: 2631 gtccgcatttggcacaaagcagacgttaaagtctacagcatgggaaacttccggatgccg 2690

Query: 43755 cgttagcggcatggaggcgcagatgaag 43783
|||
Sbjct: 2691 cgtcagcggcatggaggcgcagatgaag 2719

Score = 61.9 bits (31), Expect = 9e-08
Identities = 68/82 (82%), Gaps = 10/82 (12%)
Strand = Plus / Minus

Query: 3566 cttcatctggcgccctccatgccgctaacgcggcatccg-----atgctgtagtct 3615
 ||||| ||||||||||||||||||| ||||||||||||| ||||||||| ||
Sbjct: 2719 cttcagctggcgccctccatgccgctgacgcggcatccggaagtttcccatgctgtagact 2660

Query: 3616 ttaatgtctgctttgtgcaaaa 3637
 |||| | |||||||||||||||
Sbjct: 2659 ttaacgtctgctttgtgcaaaa 2638

Score = 60.0 bits (30), Expect = 3e-07
Identities = 36/38 (94%)
Strand = Plus / Plus

Query: 38990 cggatgccgcgttagcgggcatggaggcgccagatgaag 39027
 ||||||||||||| ||||||||||||||||||| |||||
Sbjct: 2682 cggatgccgcgtcagcgggcatggaggcgccagctgaag 2719

Score = 48.1 bits (24), Expect = 0.001
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 38958 tggcaciaaagcagacattaaagactacagcat 38989
 ||||||||||||| ||||| |||||||||
Sbjct: 2640 tggcaciaaagcagacgttaaagtctacagcat 2671

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

Query: 15076 gatttattcaacaaagccgca 15096
 |||||||||||||||||
Sbjct: 45063 gatttattcaacaaagccgca 45043

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

Query: 60385 cagtcggtctggcagaaca 60403
 |||||||||||||

Sbjct: 33376 cagtcggtctggcagaaca 33394

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

Query: 61115 tgttctgccagaccgactg 61133
 |||||
Sbjct: 34106 tgttctgccagaccgactg 34124

>NODE_44_length_1057_cov_84.511828
 Length = 1057

Score = 2095 bits (1057), Expect = 0.0
Identities = 1057/1057 (100%)
Strand = Plus / Minus

Query: 14037 ggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttccc 14096
 |||||
Sbjct: 1057 ggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttccc 998

Query: 14097 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 14156
 |||||
Sbjct: 997 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 938

Query: 14157 ataaagccctcatcaaccgtggctccataactttctggctggatgatgaagctattcagg 14216
 |||||
Sbjct: 937 ataaagccctcatcaaccgtggctccataactttctggctggatgatgaagctattcagg 878

Query: 14217 cctggtatgagtcagcaaacaccttcttcacgaggcagacctcagcgctattctgaccttg 14276
 |||||
Sbjct: 877 cctggtatgagtcagcaaacaccttcttcacgaggcagacctcagcgctattctgaccttg 818

Query: 14277 ccatcacgactgtgctggtcattaaacgcgtattcaggctgacctgccccggtgcgcagg 14336
 |||||
Sbjct: 817 ccatcacgactgtgctggtcattaaacgcgtattcaggctgacctgccccggtgcgcagg 758

Query: 14337 gctttattgattccattttttctctgatgaacgttccgctacgctgccccgattacagct 14396
 |||||
Sbjct: 757 gctttattgattccattttttctctgatgaacgttccgctacgctgccccgattacagct 698

Query: 14397 gtgtcagcaggcgggcaaagtcgggttaatgtcagtttcaaaacgcccacccggggtgaaa 14456
 |||||
Sbjct: 697 gtgtcagcaggcgggcaaagtcgggttaatgtcagtttcaaaacgcccacccggggtgaaa 638

Query: 14457 tcgcacacctggttaattgattccaccgggctgaaggtcttcggtgaaggcgagtggaaaag 14516
 |||||
Sbjct: 637 tcgcacacctggttaattgattccaccgggctgaaggtcttcggtgaaggcgagtggaaaag 578

Query: 14517 tcaaaaagcatggccaggaacgcccgcgtatctggcgtaagctgcatctcgccgttgaca 14576
 |||||

Sbjct: 577 tcaaaaagcatggccaggaacgccgcgtatctggcgtaagctgcatctcgccgttgaca 518

Query: 14577 gtaaaacacatgaaatcatctgcgctgacctgtcgctgaacaacgttacggactcagagg 14636
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 517 gtaaaacacatgaaatcatctgcgctgacctgtcgctgaacaacgttacggactcagagg 458

Query: 14637 ccttccccgggttaatccggcgaacccaccggaaaatcaggtcagccgccgccgatggcg 14696
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 457 ccttccccgggttaatccggcgaacccaccggaaaatcaggtcagccgccgccgatggcg 398

Query: 14697 cttacgatacccggtatgtcacgatgaactgcggcgtaagaaaatcagcgcgcttatcc 14756
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 397 cttacgatacccggtatgtcacgatgaactgcggcgtaagaaaatcagcgcgcttatcc 338

Query: 14757 ctccccgaaaagggtgcgggttactggcccggtgaatatgcagaccgtaaccgtgcagtgg 14816
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 337 ctccccgaaaagggtgcgggttactggcccggtgaatatgcagaccgtaaccgtgcagtgg 278

Query: 14817 ctaatcagcgaatgaccgggagtaatgcgcggtggaaatggacaacagattacaaccgtc 14876
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 277 ctaatcagcgaatgaccgggagtaatgcgcggtggaaatggacaacagattacaaccgtc 218

Query: 14877 gctcgatagcggaaacggcgatgtaccgggtaaaacagctgttcgggggttcactgacgc 14936
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 217 gctcgatagcggaaacggcgatgtaccgggtaaaacagctgttcgggggttcactgacgc 158

Query: 14937 tgcgtgactacgatggtcagggttgcggaggctatggccctggtacgagcgctgaacaaaa 14996
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 157 tgcgtgactacgatggtcagggttgcggaggctatggccctggtacgagcgctgaacaaaa 98

Query: 14997 tgacgaaagcaggtatgcctgaaagcgtgcgtattgcctgaaaacacaacccgctacggg 15056
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Sbjct: 97 tgacgaaagcaggtatgcctgaaagcgtgcgtattgcctgaaaacacaacccgctacggg 38

Query: 15057 ggagacttaccgaaatctgatttattcaacaaagcc 15093
 ||||||||||||||||||||||||||||||||

Sbjct: 37 ggagacttaccgaaatctgatttattcaacaaagcc 1

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

Query: 14037 ggctttgttgaataaatc 14054
 ||||||||||||||||

Sbjct: 1 ggctttgttgaataaatc 18

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

Query: 15076 gatttattcaacaaagcc 15093
|||||
Sbjct: 1040 gatttattcaacaaagcc 1057

>NODE_23_length_71673_cov_15.369161
Length = 71673

Score = 1086 bits (548), Expect = 0.0
Identities = 557/560 (99%)
Strand = Plus / Minus

Query: 38409 tgagcgaggagcggacgttcgcggtagcgcaacaaagatgaatatttgaatcagatagtt 38468
|||||
Sbjct: 47619 tgagcgaggagcggacgttcgcggtagcgcaacaaagatgaatatttgaatcagatagtt 47560

Query: 38469 catattaaacggaaataggttacttcctctaataacgtatcagagtaacaaaggctgaaaat 38528
|||||
Sbjct: 47559 catattaaacggaaataggttacttcctctaataacgtatcagagtaacaaaggctgaaaat 47500

Query: 38529 ggcaaagcttgaagaattaaaaaacatztatcccggtgcactggcatggaaatttggcga 38588
|||||
Sbjct: 47499 ggcaaagcttgaagaattaaaaaacatztatcccggtgcactggcatggaaatttggcga 47440

Query: 38589 cagcccagaacttgctgacgaactcgtacaactggttttgagtgggagtaaaacagcgac 38648
|||||
Sbjct: 47439 cagcccagaacttgctgacgaactcgtacaactggttttgagtgggagtaaaacagcgac 47380

Query: 38649 atgctcttcgatagcatcttttcaccatgaacatgaacgaggcgaagctccctgcgttgg 38708
|||||
Sbjct: 47379 atgctcttcgatagcatcttttcaccatgaacatgagcgaggcgaagctccctgcgttgg 47320

Query: 38709 aagttataatatcattcttaacggagccgggcagccaatgtgcgtgatcagaactctcag 38768
|||||
Sbjct: 47319 aagttataatatcattcttaacggagccgggcagccaatgtgcgtgatcagaactctcag 47260

Query: 38769 gatgcaagttatccgcttcaatgaaatgacgagtgaacttgccagtaaggaaggtgaagg 38828
|||||
Sbjct: 47259 gatgcaagttatccgcttcaatgaaatgacgagtgaacttgccagtaaggaaggtgaagg 47200

Query: 38829 tgatttaagtctggagtattggaatgaaggtcataagcggtattttgagcgtgaaggcac 38888
|||||
Sbjct: 47199 tgatttaagtctggagtattggaatgaaggtcataagcattattttgagcgtgaaggcac 47140

Query: 38889 ttattctgaagaaatggaacttatatttgaggaatttgaacttacagagattttgtaact 38948
|||||
Sbjct: 47139 ttattctgaagaaatggaacttatatttgaggaatttgaacttacagagattttgtaact 47080

Query: 38949 gtcagctactggcacaaagc 38968
|||||
Sbjct: 47079 gtcagctactggcactaagc 47060

Query:	35197	cgggtctctgaggtcacctcgtaaagcaacgtgcgccaaaaattcagccagccgatcgcc 	35256
Sbjct:	48731	ccgggctctgaggttccccgcaagcaacgtgcgccaaaattcagccagccgatcgcc	48672
Query:	35257	gggcctgttgtggcgaaactgatacagatagatggctgtgaccaccatttggttcgagaacc 	35316
Sbjct:	48671	gggcttgctgcggcgaaactgatccagattgatggttgcgaccatcactggttcgagaacc	48612
Query:	35317	gtgctccagcctgtaccgtgctggtttacgttgatgatgcaacgagccgactgatgcagc 	35376
Sbjct:	48611	gtgcgctgcctgtactgccctgggtctacgttgatgatgcgacgagccgcctgatgcaac	48552
Query:	35377	tccgctttgtaaaatcggaatcaacattcacctattttagggccacacgaggctacctgg 	35436
Sbjct:	48551	tccgtttcgtgaaatcggaatcgactttcacctatttgaagccacgcggggctatatctgg	48492
Query:	35437	aaaaacatggtaaaccgctggcggttatcacgcgacaaagccagtgtattcagaataaaca 	35496
Sbjct:	48491	agaagcatggcaaaccctggcgctgtacgcgataaaagccagcgtcttcagaatcaaca	48432
Query:	35497	acaaaaatgccactggtggcgatggctttaccagtttggcgctgcgatgcatgaactga 	35556
Sbjct:	48431	ataaaaacgctaccgggtggcgatgggttataccagtttggcgctgcgatgcacgaactga	48372
Query:	35557	atatccagactatctgcacgaataccagctctgccaaaggccgcgtggaacgcgctcatc 	35616
Sbjct:	48371	acatccagactatctgcgccaataccagctcagccaaaggccgtgtggaacgggcccatc	48312
Query:	35617	tgacgcttcaggaccgactggtaaaagaactccggcttaggggaatttcttctgttgacg 	35676
Sbjct:	48311	tgacgcttcaggatcgccctggtaaaggagctccggctcaggggcatttcctcagtggatg	48252
Query:	35677	cagccaatgagtatgctgatgagtttatggatgattataaccggcgctttgccaaagctc 	35736
Sbjct:	48251	cagccaatgatTTTGTGATGAGTTTTATGCCAAAGCTC	48192
Query:	35737	ccctacatgactttgatgtgcatcggccacttgaacataatgatgatctggctgcctttt 	35796
Sbjct:	48191	cccggcatgactttgatgttcaccggccacttgaaactgatgatgatctgaccgcatttt	48132
Query:	35797	tcacatggcgggaaccgcgccggtttcgaaatctctgacgggttcagtatgacaaagtgc 	35856
Sbjct:	48131	tcacatggcgggaaccgcgccggtttcaaaatccctgacgggtgcagtatgacaaagtgc	48072
Query:	35857	tctatcttattgaagacagtgaataagtgcgcaaagcaatcgggaaatatagaggtct 	35916
Sbjct:	48071	tctatctgattgaagacaatgagttaagccgaagggtattggcaagtacattgaggtct	48012
Query:	35917	ggcactatccggatggcctaanaaagaactcaggcttaacggcgtagctcttccctactoca 	35976
Sbjct:	48011	ggcattaccggatggccggaagagctccggctaacgggggttgtccttccctactoca	47952

Query: 35977 cttatgatcgctgtcggaaatcgaccagggagctatcgtggacaacaagcggctcggac 36036
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 47951 cctatgatcgcttcaggaaatcgaccagggggtatcgtggacaacaagcgccctcgggc 47892

Query: 36097 tacctgctggcgatgggccttcacggcggcgaggaacccaactgataagaaatcccagc 36156
 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 47831 tccctgccggagatggccccctgcgcggaagcaggaaaccacagagaagaaatcccagc 47772

Score = 101 bits (51), Expect = 1e-19
Identities = 72/78 (92%), Gaps = 2/78 (2%)
Strand = Plus / Minus

```
Query: 34797 aag--ttaagatgtccgt 34812
          ||| |||||
Sbjct: 11776 aagtattaagatgtccgt 11759
```

Query: 3326 aagaacatccccctaagcgctcagcagcaagctgccgcgctaaggccccgaaatcacgc 3385
 |||||||
 Sbjct: 22670 aagaacatccccctaagcgctcaacagcaagctgctgccgcgctaaggctccggaatcacat 22729

Score = 85.7 bits (43), Expect = 6e-15
Identities = 64/71 (90%)
Strand = Plus / Minus

||||||| | ||||||||| ||||||||| ||||||||| ||||||||| |
Sbjct: 22740 cgacgtaaaagatgtgatttccggagccttagcggcagcagcttgctggtgacgcttaag 22681

Query: 39257 gggatgttctt 39267

|||||||
Sbjct: 22680 gggatgttctt 22670

Score = 77.8 bits (39), Expect = 1e-12
Identities = 64/71 (90%), Gaps = 1/71 (1%)
Strand = Plus / Minus

Query: 34839 atgacggctcatgcagcggagttttttacattggatgaagttaaccgactcaaaatcatt 34898

||||||| ||||| ||||| ||||| || ||||||||||||||||||||||||||||| |||
Sbjct: 11730 atgacggatcatgtagcgggaattttt-actttggatgaagttaaccgactcaaaattatt 11672

Query: 34899 caggatgttgt 34909

||||||| |||||
Sbjct: 11671 caggatattgt 11661

Score = 58.0 bits (29), Expect = 1e-06
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 40860 gtcccccttgattaaggatagcgttgcatcgacccat 40896

||||| ||||||||||||||||||||||||||||| |||||
Sbjct: 22971 gtcctccttgattaaggatagcgttgcatcgcccat 22935

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

Query: 2906 aattttcgatatccaaactgacccc 2930

||||||| |||||||||||||||||||
Sbjct: 849 aattttcaatatccaaactgacccc 873

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

Query: 24569 aattttcgatatccaaactgacccc 24593

||||||| |||||||||||||||||||
Sbjct: 849 aattttcaatatccaaactgacccc 873

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

Query: 2819 tccgctcctcgctcaaagc 2837
 |||||||
Sbjct: 47605 tccgctcctcgctcaaagc 47623

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

Query: 34730 atttaacataaaacgcatt 34748
 |||||||
Sbjct: 49996 atttaacataaaacgcatt 49978

>NODE_27_length_62334_cov_15.396226
 Length = 62334

Score = 771 bits (389), Expect = 0.0
Identities = 617/693 (89%)
Strand = Plus / Plus

Query: 22927 gtacaccctgacgccataatcaaaacgtgatggagcacgatgaatgagataacctatatg 22986
 ||||||| |||| | | ||||| |||| | | ||||| ||||| ||||| ||||| |||||
Sbjct: 23184 gtacaccctgatgccacaaacaaaacgtgacggcacacgatgaatgacataacctatatg 23243

Query: 22987 ctatagaataaatacaataacctaataatgcgataaatatggtggaaaaatgttcacatcagagc 23046
 | ||| ||||| ||||| ||||| ||||| |||| | ||||| ||||| ||||| |||||
Sbjct: 23244 cgatacgataaatgcaataacttaaatgcgataacgtggcgaaaaatgttcacatcagagc 23303

Query: 23047 ttatattgagggcatcgacggaagatcagttcgccgaccgggcaaaagagatgctggagca 23106
 ||||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 23304 ttatttaagagcatcgacggaagatcagttcgcggatcgggcaaaagagatgctggagca 23363

Query: 23107 gttcgttcaggaacgaggggcataaaatcgccagctattaccgggagaaatcagcgggac 23166
 ||||||| | || | ||||| |||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 23364 gttcgttcagcagcggggacataaaatagccagttactaccgggagaaatcagcgggtac 23423

Query: 23167 aaaacttgaccgcccggagctgggacgcttgctgacggacagtcaccgtaatgatatttt 23226
 ||||||| ||||| || | || | |||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 23424 aaaacttgatcgcccgaactaggtcgcttactgatggacagtcaccgcaatgatatttt 23483

Query: 23227 gctggtcgagcagatagaccggctgaccgcctgagcaacagcgactggatgacgctgaa 23286
 ||||||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 23484 gctggtcgagcaaatgaccgcctgaccgctctgagtaacagcgactggatgacgctgaa 23543

Query: 23287 aaagcagatcgaacaacacgaactgcggattgtcagccttgatgtccccacatcatggca 23346
 ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 23544 aaagcagatagaacaacacgagctgcggtattgttagcctggatgtccccacctcatggca 23603

Query: 23347 ggcactatcagataaagacccttcgcaggctgatccgataacccgcgccgtgataagcgc 23406
 ||| || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 23604 ggcgtgtcagataaagaaccttcgcaggctgatccaatcaccgcgccgtgataaccgc 23663

Query: 23407 catcaacaatatgttgatcgacctgatggccgcaatgtcgcataaggactggctgagccg 23466
 ||||| || ||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 23664 catcaataacatgcttatcgatctgatggccgcgatgtcgcataaggactggctaagccg 23723

Query: 23467 ccgccagcggcaaaagcaggggaattgaacgggcgcatacactgggtaaataccggggtaa 23526
 ||||| || || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 23724 ccgccagcggcagaaacaggggaattgaacgggcgcatacgtgggtaaatatcgaggaaa 23783

Query: 23527 gcaggccgatcaggagcgacatcagaaagttctgtactatgccagggtcaagaaactgag 23586
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 23784 acaggccgatcaggagcgacatcagaaagttctgtactaccgccagattaagaaattgag 23843

Query: 23587 tatccgtgaaactgcagatgcaacaggatacag 23619
 ||| || ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 23844 tattcgcgaaaccgcagatgcaacgggtacag 23876

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

Query: 14967 ctatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgc 15026
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 62334 ctatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgc 62275

Query: 15027 gtattgcctgaaaacacaaccgcgtacgggggagacttaccgaaatctgatttattcaa 15086
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 62274 gtattgcctgaaaacacaaccgcgtacgggggagacttaccgaaatctgatttattcaa 62215

Query: 15087 caaagcc 15093
 |||||

Sbjct: 62214 caaagcc 62208

Score = 159 bits (80), Expect = 5e-37
 Identities = 95/100 (95%)
 Strand = Plus / Plus

Query: 40805 taattgccttctgctctggagtgtagttaatgcgagttcttcgtttcattgcaacgtccc 40864
 |||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 25471 taatcgccttctgctctggcgtgtagttaatccgagttcttcgtttcatggcaacgtccc 25530

Query: 40865 ccttgattaaggatagcgttgcatcgaccattgaactca 40904
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 25531 ccttgattaaggatagcgttgcatcgaccgttgaactca 25570

Score = 121 bits (61), Expect = 1e-25
Identities = 97/109 (88%)
Strand = Plus / Plus

Query: 2823 ctcctcgctcaaagctgcctgtcaacgtgatcgatcgctcttaactcggcctggaagtac 2882
|||||||
Sbjct: 25061 ctcctcgctcaaagctgcctgtcaacgtggtcaatctcccttatcgcagccaggtagtac 25120

Query: 2883 aaaaaatggccttaacgtacaataattttcgatatccaaactgaccct 2931
|||||||
Sbjct: 25121 aaaaaataaccttaacgtacaatgattttcgatatccaaactgaccct 25169

Score = 85.7 bits (43), Expect = 6e-15
Identities = 49/51 (96%)
Strand = Plus / Minus

Query: 22465 tagggggcagtttggatatcgaaaattattgtacgttaaggttatttttg 22515
|||||||
Sbjct: 25170 taggggtcagtttggatatcgaaaatcattgtacgttaaggttatttttg 25120

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

Query: 32239 ggaaccataaatgcgttcaccgaatttactgcctgctgaaactgaattttcg 32290
|||||||
Sbjct: 542 ggaaccataagcgcgttcaccggatttactgcctgctgaaactgaattttcg 491

Score = 73.8 bits (37), Expect = 2e-11
Identities = 40/41 (97%)
Strand = Plus / Plus

Query: 24555 ccttaacgtacaataattttcgatatccaaactgacccta 24595
|||||||
Sbjct: 25130 ccttaacgtacaatgatattttcgatatccaaactgacccta 25170

Score = 56.0 bits (28), Expect = 5e-06
Identities = 37/40 (92%)
Strand = Plus / Minus

Query: 24556 cttaacgtacaataattttcgatatccaaactgacccta 24595
|||||
Sbjct: 23071 cttaacgtacaaaaatttccgatctccaaactgacccta 23032

Score = 54.0 bits (27), Expect = 2e-05
Identities = 36/39 (92%)
Strand = Plus / Minus

Query: 2893 cttaacgtacaataattttcgatatccaaactgaccct 2931
|||||
Sbjct: 23071 cttaacgtacaaaaatttccgatctccaaactgaccct 23033

Score = 52.0 bits (26), Expect = 8e-05
Identities = 35/38 (92%)
Strand = Plus / Minus

Query: 24556 cttaacgtacaataattttcgatatccaaactgacccc 24593
|||||
Sbjct: 20318 cttaacgtacaaaagtttccgatatccaaactgacccc 20281

Score = 52.0 bits (26), Expect = 8e-05
Identities = 35/38 (92%)
Strand = Plus / Minus

Query: 2893 cttaacgtacaataattttcgatatccaaactgacccc 2930
|||||
Sbjct: 20318 cttaacgtacaaaagtttccgatatccaaactgacccc 20281

Score = 52.0 bits (26), Expect = 8e-05
Identities = 35/38 (92%)
Strand = Plus / Plus

Query: 2893 cttaacgtacaataattttcgatatccaaactgacccc 2930
|||||
Sbjct: 20497 cttaccgtacaataattctctatatccaaactgacccc 20534

Score = 52.0 bits (26), Expect = 8e-05
Identities = 35/38 (92%)
Strand = Plus / Plus

Query: 24556 cttaacgtacaataattttcgatatccaaactgacccc 24593

Sbjct: 20497 cttaccgtacaataattctctatatccaaactgacccc 20534

Score = 50.1 bits (25), Expect = 3e-04
Identities = 37/41 (90%)
Strand = Plus / Plus

```
Query: 22464 atagggggcagtttggatatcgaaaattattgtacgttaag 22504
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 23031 ataggggtcagtttggagatcgaaaattttgtacgttaag 23071
```

Score = 48.1 bits (24), Expect = 0.001
Identities = 30/32 (93%)
Strand = Plus / Plus

```

Query: 2900   tacaataattttcgatatccaaactgaccct 2931
             |||||
Sbjct: 25169  tacaataattctctatatccaaactgaccct 25200

```

Score = 48.1 bits (24), Expect = 0.001
Identities = 30/32 (93%)
Strand = Plus / Plus

```
Query: 24563 tacaataattttcgatatccaaactgaccct 24594
          |||||
Sbjct: 25169 tacaataattctctatatccaaactgaccct 25200
```

Score = 44.1 bits (22), Expect = 0.020
Identities = 34/38 (89%)
Strand = Plus / Plus

```
Query: 22467  gggggcagtttggatatcgaaaattattgtacgttaag 22504
           ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 20281  ggggtcagtttggatatcgaaacttttgtacgttaag 20318
```

Score = 44.1 bits (22), Expect = 0.020
Identities = 34/38 (89%)
Strand = Plus / Minus

Query: 22467 gggggcagtttggatatcgaaaattattgtacgttaag 22504

Sbjct: 20534 ggggtcagtttggatatagagaattattgtacggtaag 20497

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

Query: 36936 catctgaacttagctttgaca 36956
 |||||
Sbjct: 26546 catctgaacttagctttgaca 26566

Score = 40.1 bits (20), Expect = 0.31
Identities = 29/32 (90%)
Strand = Plus / Minus

Query: 22466 agggggcagtttggatatcgaaaattattgta 22497
 ||||| ||||| || |||||
Sbjct: 25200 aggggtcagtttggatatagagaattattgta 25169

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

Query: 14037 ggctttgttgaataaatc 14054
 |||||
Sbjct: 62208 ggctttgttgaataaatc 62225

>NODE_1_length_566821_cov_8.393009
 Length = 566821

Score = 254 bits (128), Expect = 1e-65
Identities = 128/128 (100%)
Strand = Plus / Plus

Query: 14036 cggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttccc 14095
 |||||
Sbjct: 566694 cggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttccc 566753

Query: 14096 gacaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctac 14155
 |||||
Sbjct: 566754 gacaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctac 566813

Query: 14156 aataaagc 14163
 |||||
Sbjct: 566814 aataaagc 566821

Query: 37810 cttccactcgaaccagccgtcagcaaaacaaagcgcccggccatgctgccataaacggttt 37869
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 261454 cttccattcaaaccagccatcggaacacatatcgcacgacctgctgccacagagggtt 261513

Query: 37930 ccacccaggcgcatacccccagtggaaccggatcgaggtgcagctgttcatcacgttcgct 37989
||| || | | | | | | | | | | | | | | | | | | | | | | | |
Sbjct: 261574 ccaaccgggtgcgtaaccccagtggaaccggatcgaggtgcagctgttcgtctcgcttcgct 261633

Score = 101 bits (51), Expect = 1e-19
Identities = 129/155 (83%)
Strand = Plus / Plus

Query: 18984 gctctccgggaactggctagcggcggttttcggtccagaatgttgcagctaattctgggggat 19043
|| || | ||| ||||||||| ||||| ||| ||| ||| |||
Sbjct: 72127 gccctgcaggagctgccacgcccgttccgtacaaaacctggcgggctaagctgggggat 72186

Score = 91.7 bits (46), Expect = 1e-16
Identities = 85/98 (86%)
Strand = Plus / Plus

Query: 16827 ggccgtgcctggagcgatccggcaagcagatataccgg 16864
 |||||
 Sbjct: 69963 qccqgcctgcagcgaaccggccaagcagataqaccqg 70000

Score = 87.7 bits (44), Expect = 1e-15
Identities = 143/176 (81%)
Strand = Plus / Plus

Query: 15779 ccagtgcgggtcaatggaatagagcacatcgccccgattaaccactgattatcgcggaac 15838
||||| ||||| || ||||||||||||||||||| ||||||| ||||||| || || || ||
Sbjct: 68909 ccagcgcggatcgatggaatagagcacatctccccgattgaccactggttgtcttttac 68968

Query: 15839 ggccacattcagaaccgggtccagagacatccggcgcaatctggaccacatccgcacgaac 15898
||||| | ||||||| ||||||| || || ||||||| ||||||| || || || ||
Sbjct: 68969 cgccacgctggccaccgggtcccagagacatcgggagcgatctgcaccacgctcggccgtac 69028

Query: 15899 ccgaccatcgcggggtccagggagtttgacataatgtttccagagaataaaagcca 15954
||||||||||||||||||||| ||||||| || || ||||||| ||||||| ||
Sbjct: 69029 ccgaccatcgcggggtccagggcgtttgcgcctcctgtttccagagaatgaaagcca 69084

Score = 63.9 bits (32), Expect = 2e-08
Identities = 89/108 (82%)
Strand = Plus / Plus

Query: 15248 acgctgcgcgagccgcacccagctaaagggttggtcgcacattaggcaggccaagcccccc 15307
||||||||| ||||||||||||||||||| ||||||| ||||||| || ||||||| || || ||
Sbjct: 68378 acgctgcgccagccgcacccagctgaagggtcggctcgacctccggcaggccccagggcacc 68437

Query: 15308 ggtctcgtcattgttatcatctattccgcgcccgataactctcaacatg 15355
||||||| ||||||| |||| | || || || ||||||| |||||||
Sbjct: 68438 ggtctcatcattggtatcgccgatcccgtgtccgataactctcgacatg 68485

Score = 63.9 bits (32), Expect = 2e-08
Identities = 144/180 (80%), Gaps = 1/180 (0%)
Strand = Plus / Plus

Query: 18299 aaatactctattctgtcaaaaaatacctaaatgttgccaatc-tatgttaccgccactcg 18357
||||||||||||||||||||| ||||| || ||||||| ||||| || || || ||
Sbjct: 71441 aaatactctattctgtcaaaaaatacctgaatctggccaatcgtatgccatcaccttttg 71500

Query: 18358 ccaatacactgtttgatccagatgccatcccctgccccgcagtcgcgcgtcatttgatt 18417
||||||| ||||| ||||| || || || ||||||| || ||||||| ||||| || |||||
Sbjct: 71501 ccaatacgtgtacgatccggacgcgcgcgtcctgcccggccgtcgctgtcatcttgatt 71560

Query: 18418 ttgtcgattacgcggccgaagtacctgtgcatacgcaccgcaaagggcaattgattattg 18477
||||||| || | || ||||| || ||||||| || ||||||| ||||||| ||
Sbjct: 71561 ttgtcgagatgaagcggaagtgcgggtgcatacccatcgcaaagggcagttgattattg 71620

Score = 48.1 bits (24), Expect = 0.001
Identities = 30/32 (93%)
Strand = Plus / Minus

Query: 45350 gcaatcatcaaatgcagctgctgacgccagcg 45381
 ||||| |||||||||||||||| |||||||
Sbjct: 72128 gcaataatcaaatgcagctgctggcgccagcg 72097

Score = 42.1 bits (21), Expect = 0.079
Identities = 36/41 (87%)
Strand = Plus / Minus

Query: 47086 gcgctgtcaggcatggcgcgagagtatcggttatctgatggc 47126
 |||||||||| |||||||||||| |||| |||||| ||||
Sbjct: 89294 gcgctgtcagggatggcgcgagagcgctcggctatctgctggc 89254

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

Query: 21352 tgccaatgccggtatcgcgatatgc 21375
 |||| ||||||||||||||||
Sbjct: 305110 tgccgatgccggtatcgcgatatgc 305133

Score = 40.1 bits (20), Expect = 0.31
Identities = 32/36 (88%)
Strand = Plus / Minus

Query: 10138 acgccgttgcggtatcccattcaagcggtcggcca 10173
 ||||||| || |||||||| || |||||||||
Sbjct: 378186 acgccgttacgaatatcccactccagcggtcggcca 378151

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

Query: 15429 gtctcttcaaaaatagccaaccacccaaaaaac 15459
 |||||||||||||| || |||||||| ||||
Sbjct: 68559 gtctcttcaaaaataccctaccacccagaaac 68589

Score = 38.2 bits (19), Expect = 1.2
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 56142 ccaaactgccatggaaaaatagcg 56164
 ||||| |||||
Sbjct: 340561 ccaaactgccagggaaaaatagcg 340583

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

Query: 56798 gtgactcagcgcatgctga 56816
 |||||
Sbjct: 467070 gtgactcagcgcatgctga 467088

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

Query: 15076 gatttattcaacaaagccg 15094
 |||||
Sbjct: 566712 gatttattcaacaaagccg 566694

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

Query: 36940 tgaacttagctttgacat 36957
 |||||
Sbjct: 27670 tgaacttagctttgacat 27653

Score = 36.2 bits (18), Expect = 4.9
Identities = 33/38 (86%)
Strand = Plus / Plus

Query: 15498 gtggcatagtcaccagggcggaagccgcaaagtgtgac 15535
 ||||| || ||||| || ||
Sbjct: 68628 gtggcatagtcgcccgggcgtagccgcagatgggtgac 68665

Score = 36.2 bits (18), Expect = 4.9

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

Query: 32383 tcatttggttcgacatcac 32400
 |||||||
Sbjct: 121280 tcatttggttcgacatcac 121297

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

Query: 41821 tacagtctgccgctggca 41838
 |||||||
Sbjct: 227557 tacagtctgccgctggca 227574

Score = 36.2 bits (18), Expect = 4.9
Identities = 48/58 (82%)
Strand = Plus / Plus

Query: 37707 cttcgtcaccgcgctcaaagggtatactgccgatcgcggtcataaatattggctggcc 37764
 ||||||| ||||| || | || ||||| | || | |||||
Sbjct: 261351 cttcgtcgccgcgctcaaaaggcacgctaccgatcgccgcatgaagattggctggcc 261408

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

Query: 18625 ccgccgcgctgccggagc 18642
 |||||||
Sbjct: 344229 ccgccgcgctgccggagc 344212

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

Query: 44609 cgcagctgctgcgcgagg 44626
 |||||||
Sbjct: 433068 cgcagctgctgcgcgagg 433085

>NODE_28_length_56662_cov_9.648147
 Length = 56662

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

Query: 14037 ggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttcccg 14096
|||||
Sbjct: 56536 ggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttcccg 56595

Query: 14097 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 14156
|||||
Sbjct: 56596 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 56655

Query: 14157 ataaagc 14163
|||||
Sbjct: 56656 ataaagc 56662

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

Query: 15076 gatttattcaacaaagcc 15093
|||||
Sbjct: 56553 gatttattcaacaaagcc 56536

>NODE_25_length_69837_cov_10.709066
Length = 69837

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

Query: 14037 ggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttcccg 14096
|||||
Sbjct: 69711 ggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttcccg 69770

Query: 14097 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 14156
|||||
Sbjct: 69771 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 69830

Query: 14157 ataaagc 14163
|||||
Sbjct: 69831 ataaagc 69837

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

Query: 35691 gctgatgagtttatggat 35708

|||||
Sbjct: 8874 gctgatgagtttatggat 8891

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

Query: 10230 atcgaggatctcctgcgg 10247
|||||
Sbjct: 30321 atcgaggatctcctgcgg 30304

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

Query: 15076 gatttattcaacaaagcc 15093
|||||
Sbjct: 69728 gatttattcaacaaagcc 69711

>NODE_20_length_85165_cov_8.967991
Length = 85165

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

Query: 14967 ctatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgc 15026
|||||
Sbjct: 1 ctatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgc 60

Query: 15027 gtattgcctgaaaacacaacccgctacgggggagacttaccgaaatctgatttattcaa 15086
|||||
Sbjct: 61 gtattgcctgaaaacacaacccgctacgggggagacttaccgaaatctgatttattcaa 120

Query: 15087 caaagcc 15093
|||||
Sbjct: 121 caaagcc 127

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

Query: 14037 ggctttgttgaataaatc 14054
|||||
Sbjct: 127 ggctttgttgaataaatc 110

>NODE_13_length_165527_cov_10.023307

Length = 165527

Score = 252 bits (127), Expect = 4e-65

Identities = 127/127 (100%)

Strand = Plus / Minus

```
Query: 14967 ctatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgc 15026
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 165527 ctatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgc 165468
```

```
Query: 15027 gtattgcctgaaaacacaacccgctacgggggagacttacccgaaatctgatttattcaa 15086
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 165467 gtattgcctgaaaacacaacccgctacgggggagacttacccgaaatctgatttattcaa 165408
```

```
Query: 15087 caaagcc 15093
          |||||
Sbjct: 165407 caaagcc 165401
```

Score = 36.2 bits (18), Expect = 4.9

Identities = 18/18 (100%)

Strand = Plus / Plus

```
Query: 54249 agtctggcgggcggcctg 54266
          ||||||||||||||||
Sbjct: 43454 agtctggcgggcggcctg 43471
```

Score = 36.2 bits (18), Expect = 4.9

Identities = 18/18 (100%)

Strand = Plus / Plus

```
Query: 14037 ggctttgttgaataaaatc 14054
          ||||||||||||||||
Sbjct: 165401 ggctttgttgaataaaatc 165418
```

>NODE_5_length_361067_cov_9.330210

Length = 361067

Score = 252 bits (127), Expect = 4e-65

Identities = 127/127 (100%)

Strand = Plus / Minus

```
Query: 14037 ggctttgttgaataaaatcgaacttttgctgagttgaaggatcagatcacgcatcttccc 14096
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 127 ggctttgttgaataaaatcgaacttttgctgagttgaaggatcagatcacgcatcttccc 68
```

Query: 14097 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 14156
|||||
Sbjct: 67 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 8

Query: 14157 ataaagc 14163
|||||
Sbjct: 7 ataaagc 1

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

Query: 15076 gatttattcaacaaagcc 15093
|||||
Sbjct: 110 gatttattcaacaaagcc 127

>NODE_46_length_1018_cov_16.254770
Length = 1018

Score = 250 bits (126), Expect = 2e-64
Identities = 126/126 (100%)
Strand = Plus / Minus

Query: 14037 ggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttcccg 14096
|||||
Sbjct: 126 ggctttgttgaataaatcgaacttttgctgagttgaaggatcagatcacgcatcttcccg 67

Query: 14097 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 14156
|||||
Sbjct: 66 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 7

Query: 14157 ataaag 14162
|||||
Sbjct: 6 ataaag 1

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

Query: 15076 gatttattcaacaaagcc 15093
|||||
Sbjct: 109 gatttattcaacaaagcc 126

>NODE_35_length_27820_cov_67.851804
Length = 27820

Score = 250 bits (126), Expect = 2e-64
Identities = 126/126 (100%)
Strand = Plus / Plus

Query: 14968 tatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgcg 15027
|||||
Sbjct: 1 tatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgcg 60

Query: 15028 tattgcctgaaaacacaacccgctacgggggagacttacccgaaatctgatttattcaac 15087
|||||
Sbjct: 61 tattgcctgaaaacacaacccgctacgggggagacttacccgaaatctgatttattcaac 120

Query: 15088 aaagcc 15093
|||||
Sbjct: 121 aaagcc 126

Score = 42.1 bits (21), Expect = 0.079
Identities = 66/81 (81%)
Strand = Plus / Plus

Query: 37958 ggatcgaggtgcagctgttcacacggttcgctcagcagtaacaccttggttcctggggcg 38017
|||||
Sbjct: 659 ggatcgagatgcaactgctcgtcacggttcgctcaggagcaaaactatagtcctggcgcc 718

Query: 38018 acgttgtagcgaccgattggt 38038
|||||
Sbjct: 719 acgttgtagcgaccgattggt 739

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

Query: 14037 ggctttgttgaataaaatc 14054
|||||
Sbjct: 126 ggctttgttgaataaaatc 109

>NODE_29_length_49941_cov_9.629522
Length = 49941

Score = 250 bits (126), Expect = 2e-64
Identities = 126/126 (100%)
Strand = Plus / Minus

Query: 14037 ggctttgttgaataaaatcgaacttttgctgagttgaaggatcagatcacgcatcttcccg 14096
|||||
Sbjct: 126 ggctttgttgaataaaatcgaacttttgctgagttgaaggatcagatcacgcatcttcccg 67

Query: 14097 acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 14156

Sbjct: 66 |||||
acaacgcagaccgttccgtggcaaagcaaaagttcaaaatcaccaactggcccacctaca 7

Query: 14157 ataaag 14162
|||||
Sbjct: 6 ataaag 1

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

Query: 15076 gatttattcaacaaagcc 15093
|||||
Sbjct: 109 gatttattcaacaaagcc 126

>NODE_15_length_121110_cov_9.734285
Length = 121110

Score = 250 bits (126), Expect = 2e-64
Identities = 126/126 (100%)
Strand = Plus / Plus

Query: 14968 tatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgcg 15027
|||||
Sbjct: 1 tatggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgcg 60

Query: 15028 tattgcctgaaaacacaacccgctacgggggagacttaccgaaatctgatttattcaac 15087
|||||
Sbjct: 61 tattgcctgaaaacacaacccgctacgggggagacttaccgaaatctgatttattcaac 120

Query: 15088 aaagcc 15093
|||||
Sbjct: 121 aaagcc 126

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

Query: 14037 ggctttgttgaataaatc 14054
|||||
Sbjct: 126 ggctttgttgaataaatc 109

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

Query: 55422 tccccggtttaccggaga 55439
|||||
Sbjct: 40267 tccccggtttaccggaga 40284

>NODE_37_length_21672_cov_17.473938
Length = 21672

Score = 248 bits (125), Expect = 7e-64
Identities = 125/125 (100%)
Strand = Plus / Minus

Query: 14969 atggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgcgt 15028
|||||
Sbjct: 21672 atggccctggtacgagcgctgaacaaaatgacgaaagcaggtatgcctgaaagcgtgcgt 21613

Query: 15029 attgcctgaaaacacaacccgctacgggggagacttaccgaaatctgatttattcaaca 15088
|||||
Sbjct: 21612 attgcctgaaaacacaacccgctacgggggagacttaccgaaatctgatttattcaaca 21553

Query: 15089 aagcc 15093
|||||
Sbjct: 21552 aagcc 21548

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

Query: 14037 ggctttgttgaataaatc 14054
|||||
Sbjct: 21548 ggctttgttgaataaatc 21565

>NODE_3_length_470369_cov_9.494788
Length = 470369

Score = 190 bits (96), Expect = 1e-46
Identities = 189/220 (85%)
Strand = Plus / Minus

Query: 52261 agaatttcccggcactgcgccagatattgcagaccttccggagtaaggctgacacgtctt 52320
|||||
Sbjct: 428664 agaatttcccggcactgcgccagatactgcatcccttccgggtaaggctcaccgcctt 428605

Query: 52321 gtggtccggttcagcagacgcacctgcagatatttctccagggttttgatggtgctggtgta 52380
|||||
Sbjct: 428604 gtggtccggttcagcagccgcaccttcaggatatttctcaagggttttaatggtactggtg 428545

Query: 52381 acagtagaagaaggcaggggaaagtgtttccgcggcccgacaaagcttccggcctcagcc 52440
|||||
Sbjct: 428544 acagtggaggcaggcaggggaaaggtttccgcggcacgcacgaagctccctgcctccgcg 428485

Query: 52441 acccttataaaaaacctgcatagcctgaatacgatccacct 52480
|| | ||||| | ||||| ||||| ||||| ||||| |||||
Sbjct: 428484 acgcgcataaacatctgcatagcctggatacgatccacct 428445

Score = 69.9 bits (35), Expect = 3e-10
Identities = 116/143 (81%)
Strand = Plus / Minus

Query: 52051 atcacgcagctctacaccctcctgaaccaggtcaacctgccggtcgctgacgccgatcatc 52110
||||| ||||| || || ||||| ||||| || ||||| || ||||| ||||| ||||| ||||| |||||
Sbjct: 428874 atcacgcagtcgacgccttcctgaatcagatcgacctggcgatcgctgacgccgatcatc 428815

Query: 52111 aggtaaatgtcaggataacggctgtagaactctttcaggtttggcatgacgatgaagtgc 52170
||||| || || ||||| || || ||||| || || ||||| || ||||| ||||| ||||| |||||
Sbjct: 428814 aggtagatatcgggatagcgccggtaaaagtccggcagatgcggcatgacgatgaaatgc 428755

Query: 52171 gctataccgccgggcatatcaac 52193
|| || || ||||| ||||| |||||
Sbjct: 428754 gcgatgcccgcgggcatatcaac 428732

Score = 52.0 bits (26), Expect = 8e-05
Identities = 44/50 (88%)
Strand = Plus / Minus

Query: 51757 agctgcgccagtcggaacccttcaaggcacatTTTTATATAAAGCCCCGT 51806
||||| ||||| ||||| || || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 429168 agctgcgccagcccgaagcccgccaggcacatTTTTATATAGAGCCCCGT 429119

Score = 50.1 bits (25), Expect = 3e-04
Identities = 28/29 (96%)
Strand = Plus / Plus

Query: 36962 tgtagtagctaaattgagatgtccgtctc 36990
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 48937 tgtagtagctaaattgagatgtccatctc 48965

Score = 48.1 bits (24), Expect = 0.001
Identities = 30/32 (93%)
Strand = Plus / Plus

Query: 48554 acggtttccatctggctgactacgggtatctg 48585
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 427998 acggttgccatctggctgactacggggatctg 428029

Score = 44.1 bits (22), Expect = 0.020
Identities = 112/142 (78%)
Strand = Plus / Plus

Query: 48260 ccgatggcataaaaactgtcccccggcgacataatgtatgggttcgtaattcgtcagggtgct 48319
|||||
Sbjct: 427704 ccgatggcatagaactgcccgcctgcgacatagtgaacgggtccgtagctcgtccggcgca 427763

Query: 48320 tcatcaaatatccagtgtccattgcgaaaaacccgatcgtcactccacgcgccggcaatt 48379
|||||
Sbjct: 427764 tcatcaaaaatccagtgtccgttacggaatacccggtcatcgtccaggcgcgacgata 427823

Query: 48380 tctcccataaacagattatggt 48401
||
Sbjct: 427824 tcgcccagaaacagattgtggt 427845

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

Query: 19046 atcggttaatgcgtttatc 19064
|||||
Sbjct: 225331 atcggttaatgcgtttatc 225313

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

Query: 35879 aataagtcgcaaagcaatc 35897
|||||
Sbjct: 371153 aataagtcgcaaagcaatc 371171

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

Query: 59199 gcagtcggcgctgctcaa 59216
|||||
Sbjct: 417680 gcagtcggcgctgctcaa 417697

```
Query: 4284      ttgagcagcgccgactgc 4301
           |||
Sbjct: 417697    ttgagcagcgccgactgc 417680
```

Score = 172 bits (87), Expect = 3e-41
Identities = 153/175 (87%)
Strand = Plus / Minus

Query: 39494 cccctgaatttaaggaagaagccgtccgtcaaataacggaacgcggttataccgtcgccg 39553
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 Sbjct: 62034 cacctgaatttaaaqaagaagccgtccgtcagataatggaacgcggtgattctgttgccg 61975

Query: 39554 aagatctgactgtctggcgctctctggacacagcctctacaagtggctacgggc 39608
 ||||| | ||| |||| | | ||||| ||||| |||||
 Sbjct: 61974 aagtatctaatactcgccgattcccgcacacagcctctacaagtggctacgggc 61920

Score = 83.8 bits (42), Expect = 2e-14
Identities = 51/54 (94%)
Strand = Plus / Plus

Query: 32239 ggaaccataaatgcgttcaccgaatttactgctgctgaaactgaattttcgtc 32292
 |||||
 Sbjct: 64725 qgaaccataaatgtgttcaccggatttattgctgctgaaactgaattttcgtc 64778

Score = 99.6 bits (50), Expect = 4e-19
Identities = 78/86 (90%), Gaps = 1/86 (1%)
Strand = Plus / Minus

Query: 22466 agggggcagtttggatatcgaaaattattgtacgttaaggttat-tttttgacctttcaa 22524
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 Sbict: 260664 agggggcagtttggatatcaaaaaattattgtacgttaaggctgtatttttgacctttcga 260605

```
Query: 22525      ctttagcagacctcagccgacgaaac 22550
          ||||| | |||||
Sbjct: 260604    ctttagctggcctcagccgacgaaac 260579
```

Score = 75.8 bits (38), Expect = 6e-12
Identities = 113/136 (83%), Gaps = 4/136 (2%)
Strand = Plus / Plus

Query: 38993 atgccgcgttagcggcatggagggcgccagatgaagctgcatgtatctgtggagtcaaagt 39052
||||||| ||||||| ||||||| | ||||| | || |||||
Sbjct: 266148 atgccgcgtcagcggcatgacagcgccagatgatg-tgcatgtggcagtcagccaaagt 266206

Query: 39053 gcgccgaaagcccggcgtagccgggttacctggctataaattctgccaccctccccctgc 39112
||||||| || ||||||| ||||| | ||||||| || |||||
Sbjct: 266207 gcgccgaaggcttggcgtagccgggttatcgggtataaattctg---ccggccccctgc 266263

Query: 39113 cctgattagccttaac 39128
||||||| |||||
Sbjct: 266264 cctgattagccttaac 266279

Score = 75.8 bits (38), Expect = 6e-12
Identities = 113/136 (83%), Gaps = 4/136 (2%)
Strand = Plus / Minus

Query: 3465 gttaaggctaatacagggcaggggggaggggtggcagaatttatagccaggtaaccgggtac 3524
||||||| ||||||| ||||| || ||||||| || |||||
Sbjct: 266279 gttaaggctaatacagggcaggggggcccgg---cagaatttatataacccgataaccgggtac 266223

Query: 3525 gccgggctttcggcgccatttgactccacagatacatgcagcttcatctggcgctccat 3584
||| || ||||||| ||||| || ||||| || ||||||| |||||
Sbjct: 266222 gccaaagccttcggcgccatttggtggactgccacatgca-catcatctggcgctgtcat 266164

Query: 3585 gccgctaacgcggcat 3600
||||| |||||||
Sbjct: 266163 gccgctgacgcggcat 266148

Score = 60.0 bits (30), Expect = 3e-07
Identities = 39/42 (92%)
Strand = Plus / Plus

Query: 24553 agccttaacgtacaataattttcgatatccaaactgaccct 24594
||||||| ||||| ||||||| |||||
Sbjct: 260623 agccttaacgtacaataatttttgatatccaaactgccccct 260664

Score = 60.0 bits (30), Expect = 3e-07
Identities = 88/106 (83%), Gaps = 1/106 (0%)
Strand = Plus / Plus

Query: 43749 atgccgcgttagcggcatggaggcgccagatgaagctgcatgtatctgtggagtcaaattg 43808
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 266148 atgccgcgtcagcggcatgacagcgccagatgatg-tgcatgtggcagtcagccaaattg 266206

Score = 58.0 bits (29), Expect = 1e-06
Identities = 38/41 (92%)
Strand = Plus / Plus

Score = 50.1 bits (25), Expect = 3e-04
Identities = 37/41 (90%)
Strand = Plus / Plus

Score = 50.1 bits (25), Expect = 3e-04
Identities = 37/41 (90%)
Strand = Plus / Minus

Score = 50.1 bits (25), Expect = 3e-04
Identities = 31/33 (93%)
Strand = Plus / Plus

Score = 50.1 bits (25), Expect = 3e-04
Identities = 31/33 (93%)
Strand = Plus / Minus

Query: 3330 acatccccctaagcgtcagcagcaagctgccgc 3362
 ||||| ||| ||||||||||||||||||||
Sbjct: 266399 acatcctccttagcgtcagcagcaagctgccgc 266367

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

Query: 43704 tgtccgcatttggcacaaagcagac 43728
 ||||||||||||||||| |||||
Sbjct: 266073 tgtccgcatttggcacacagcagac 266097

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

Query: 38165 aatgccgcgtcagcggcatg 38184
 |||||||||||||||||
Sbjct: 266147 aatgccgcgtcagcggcatg 266166

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

Query: 710 catgccgctgacgcggcat 728
 |||||||||||||||||
Sbjct: 266166 catgccgctgacgcggcat 266148

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

Query: 42721 ggtggccattggcgcgctgatg 42742
 ||||||||||||||||| |||||
Sbjct: 103680 ggtggccattggcgcgctgatg 103659

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

Query: 8862 aaaacgctgacggtggaaattc 8883
 ||||| ||||||||||||||||
Sbjct: 354905 aaaaccctgacggtggaaattc 354926

>NODE_9_length_237731_cov_8.189807
 Length = 237731

Score = 87.7 bits (44), Expect = 1e-15
Identities = 53/56 (94%)
Strand = Plus / Minus

Query: 34964 ccagtgcagacgccttctgtcgcgttaccgtgaatctggcccacttggtatggcta 35019
 ||||||| || ||||||||||||||||||||||||||||||||||| |||||||
Sbjct: 127818 ccagtgccgatgccttctgtcgcgttaccgtgaatctggcccactgggtatggcta 127763

Score = 54.0 bits (27), Expect = 2e-05
Identities = 42/47 (89%)
Strand = Plus / Minus

Query: 34839 atgacggctcatgcagcggagttttttacattggatgaagttaaccg 34885
 ||||||||||||||| |||||| | |||| | |||||||
Sbjct: 127940 atgacggctcatgcggcggagatttttgctttggataaagttaaccg 127894

Score = 54.0 bits (27), Expect = 2e-05
Identities = 36/39 (92%)
Strand = Plus / Plus

Query: 43868 cccttgatatctaacagtttgtggtgattagctaccacca 43906
 ||||||||||||||| |||||| | |||||||||||||||
Sbjct: 128311 cccttgatatctaatagtttgcgttgattagctaccacca 128349

Score = 50.1 bits (25), Expect = 3e-04
Identities = 34/37 (91%)
Strand = Plus / Plus

Query: 39306 cttgtatatctaacagtttgtggtgattagctaccacca 39342
 ||||||||||| |||||| | |||||||||||||||
Sbjct: 128313 cttgtatatctaatagtttgcgttgattagctaccacca 128349

Score = 44.1 bits (22), Expect = 0.020
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 681 gtactccattcaacttcagctggcgc 706
 ||||| ||||||||||||||||||||
Sbjct: 128239 gtacaccattcaacttcagctggcgc 128214

Score = 36.2 bits (18), Expect = 4.9
Identities = 24/26 (92%)
Strand = Plus / Minus

Query: 42885 gtccgctatgagcgaatagctgacat 42910
 ||||| |||||||||||||| ||| |||||
Sbjct: 38595 gtccgctatgagcgaagagcagacat 38570

>NODE_7_length_272670_cov_9.299336
 Length = 272670

Score = 73.8 bits (37), Expect = 2e-11
Identities = 70/81 (86%)
Strand = Plus / Plus

Query: 27173 cgtaccggccaggctacaggcttcatgagagatcccctccatcaggcaaccatccccag 27232
 ||||| ||||| ||||| |||||||||||||| ||||| |||||
Sbjct: 53044 cgtaccggccagcgaacaggactcatgggagatcccctccatcaggcagccatcgcccat 53103

Query: 27233 gaatagccagggtgtgatggtc 27253
 ||| | |||||||||||||||
Sbjct: 53104 gaaaaccagggtgtgatggtc 53124

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

Query: 9108 tcgcttcgcgcagggcgtaa 9128
 ||||| |||||||||||||
Sbjct: 75925 tcgcttcgcgcagggcgtaa 75905

Score = 40.1 bits (20), Expect = 0.31
Identities = 41/48 (85%)
Strand = Plus / Plus

Query: 26339 ggccgcatgcgtacggcattgcgggcatattccataaacatcaggaa 26386
 ||||| ||||| ||||||| || ||||| |||||||

Sbjct: 52213 ggccgccatgcgcgcggttgcgggcggtactccacgaacatcaggaa 52260

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

Query: 6365 ccagcattaaatcggcggcg 6384
|||||||
Sbjct: 115051 ccagcattaaatcggcggcg 115032

Score = 36.2 bits (18), Expect = 4.9
Identities = 69/86 (80%)
Strand = Plus / Plus

Query: 27309 gccatgccgaccgcattcgccacgccttgctctaattgggccggtagtggtttcaacgccg 27368
||||||| || ||||| || || || || ||||| ||||| || || ||
Sbjct: 53180 gccatgccgacggcggttcgccagcccctggcccagcgggccggtggtggtctccaccccg 53239

Query: 27369 ggggtgtaaccatattccgggtggcc 27394
|||| | |||| |||||
Sbjct: 53240 ggggtatagccatgctccgggtggcc 53265

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

Query: 54605 atgttttcagtggctgct 54622
|||||||
Sbjct: 73895 atgttttcagtggctgct 73912

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

Query: 47740 ataggccgcaaactgctc 47757
|||||||
Sbjct: 86650 ataggccgcaaactgctc 86667

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

Query: 5540 gatgctcaacagcttgctgctc 5561
|||||||
Sbjct: 87674 gatgctcaacagctttctgctc 87695

>NODE_41_length_1953_cov_14.457831
Length = 1953

Score = 54.0 bits (27), Expect = 2e-05
Identities = 42/47 (89%)
Strand = Plus / Minus

Query: 27276 ttgaactgagccgccagcggtttttccgcaatagccatgccgaccgc 27322
||||||| ||||| ||||| || ||||| ||||| |||||
Sbjct: 374 ttgaactgagccgccagagttttctcggaatagccatcccgaccgc 328

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

Query: 26253 tgctcgaccggttgatgagtcgggcatcttcgcccagcccga 26295
||||| ||||| || ||||| ||||| ||||| |||||
Sbjct: 1394 tgctctaccggtggtgagtcgggcatcttcacccagaccga 1352

Score = 36.2 bits (18), Expect = 4.9
Identities = 66/82 (80%)
Strand = Plus / Minus

Query: 27348 ccggtagtggtttcaacgccgggggtgtaaccatattccgggtggccgggggtgcgggaa 27407
||||| ||||| ||||| | ||||| || ||||| ||||| |||||
Sbjct: 302 ccggtggtggtttccacgccgcggtgtagccgacttccgggtgacccgggggttttgag 243

Query: 27408 tgtagctggcggaatttttca 27429
|| ||||| |||||
Sbjct: 242 tgcagctggcggaagttttca 221

>NODE_98_length_314_cov_0.240642
Length = 314

Score = 48.1 bits (24), Expect = 0.001
Identities = 27/28 (96%)
Strand = Plus / Minus

Query: 18299 aaatactctattctgtcaaaaaatacct 18326
||||||| ||||| ||||| |||||
Sbjct: 48 aaatactatattctgtcaaaaaatacct 21

>NODE_14_length_153665_cov_8.989794
Length = 153665

Score = 44.1 bits (22), Expect = 0.020
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 7664 gcctttatctcgccgatgatccgcga 7689
|||||
Sbjct: 39356 gcctttatctcgagatgatccgcga 39331

>NODE_11_length_214047_cov_8.768119
Length = 214047

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

Query: 50438 gctggatttattgctgaaaaattgt 50462
|||||
Sbjct: 172987 gctggttttattgctgaaaaattgt 172963

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

Query: 57789 tggcgattctgctggaggc 57807
|||||
Sbjct: 11241 tggcgattctgctggaggc 11259

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

Query: 22367 agcgctgaccgggctgcc 22384
|||||
Sbjct: 38651 agcgctgaccgggctgcc 38668

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

Query: 44635 aatatcgagcggcagattaaag 44656

|||||
Sbjct: 70529 aatatcgagcggctgattaaag 70508

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

Query: 42377 aatatcgagcggcagattaaag 42398
|||||
Sbjct: 70529 aatatcgagcggctgattaaag 70508

>NODE_12_length_196820_cov_8.472076
Length = 196820

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

Query: 22368 gcgctgaccgggctgccgc 22387
|||||
Sbjct: 90019 gcgctgaccgggctgccgc 90000

>NODE_42_length_1203_cov_15.188662
Length = 1203

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

Query: 40864 cccttgattaaggatagcggtgcatcgacc 40894
|||||
Sbjct: 196 cccttgattaagaataatggtgcatcgacc 166

>NODE_6_length_356231_cov_9.759612
Length = 356231

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

Query: 14604 acctgtcgctgaacaacgt 14622
|||||
Sbjct: 16734 acctgtcgctgaacaacgt 16752

Score = 36.2 bits (18), Expect = 4.9

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

Query: 36090 caggcaatacctgctggc 36107
 |||||
Sbjct: 294311 caggcaatacctgctggc 294294

>NODE_2_length_478638_cov_9.783182
 Length = 478638

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

Query: 42343 gcatatggcgagcagctg 42361
 |||||
Sbjct: 95806 gcatatggcgagcagctg 95824

Score = 38.2 bits (19), Expect = 1.2
Identities = 22/23 (95%)
Strand = Plus / Plus

Query: 30939 acgtacgggaagtacatttcacg 30961
 |||||
Sbjct: 208875 acgtacgggaagtacatttcacg 208897

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

Query: 18649 gcactctggccatttctgg 18667
 |||||
Sbjct: 255852 gcactctggccatttctgg 255834

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

Query: 27285 gccgccagcggttttttcc 27302
 |||||
Sbjct: 160851 gccgccagcggttttttcc 160834

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

Query: 23463 gccgccgccagcggaac 23480
 |||||
Sbjct: 178949 gccgccgccagcggaac 178932

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

Query: 27287 cgccagcggtttttccgc 27304
 |||||
Sbjct: 196455 cgccagcggtttttccgc 196472

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

Query: 30506 ggcgcccatagcgctggaaccc 30527
 |||||
Sbjct: 208478 ggcgcccatgagcgctggaaccc 208499

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

Query: 59202 gtcggcgctgctcaacta 59219
 |||||
Sbjct: 273346 gtcggcgctgctcaacta 273363

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

Query: 4281 tagttgagcagcgccgac 4298
 |||||
Sbjct: 273363 tagttgagcagcgccgac 273346

>NODE_30_length_48292_cov_15.609924
Length = 48292

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

Query: 8903 cagcgctcgccagctcag 8920
 |||||||
Sbjct: 40471 cagcgctcgccagctcag 40488

>NODE_18_length_93281_cov_10.372534
 Length = 93281

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

Query: 24753 agctgcaggagatgctggccga 24774
 |||||||
Sbjct: 45303 agctgcaggagatggtggccga 45324

>NODE_10_length_222279_cov_9.401747
 Length = 222279

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

Query: 61357 gttgtcatcagtgaccac 61374
 |||||||
Sbjct: 78953 gttgtcatcagtgaccac 78936

>NODE_8_length_247549_cov_9.773464
 Length = 247549

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

Query: 61663 cgtaacccggaagcgatt 61680
 |||||||
Sbjct: 164113 cgtaacccggaagcgatt 164096

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

Query: 8231 gatgctggcgctgtccac 8248
 |||||||
Sbjct: 166249 gatgctggcgctgtccac 166232

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

Query: 17040 gtaccgccatcaggccat 17057
 |||||||
Sbjct: 166877 gtaccgccatcaggccat 166860

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: 655,870
Number of extensions: 219
Number of successful extensions: 219
Number of sequences better than 10.0: 33
Number of HSP's gapped: 193
Number of HSP's successfully gapped: 193
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)