

## **BLASTn Search Outputs of the 5' Border Sequences in Maize Event DAS-40278-9 against GenBank Nucleotide Collection (nt/nr)**

BLASTN 2.2.21 [Jun-14-2009]

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

Query= Region\_1  
(1852 letters)

Database: /usr/local/blast/db/blastlibs/nt  
11,350,961 sequences; 30,878,341,354 total letters

Searching.....done

Sequences producing significant alignments:	Score	E
	(bits)	Value
gb AC165175.2  Zea mays clone ZMMBb-136N21, complete sequence	363	2e-96
ref NM_001152615.1  Zea mays hypothetical protein LOC100279619 (...)	305	5e-79
gb EF468501.1  Zea mays clone pBK118-2 retrotransposons GrandeB, ...	196	3e-46
emb AJ312478.1  Zea mays Grande retrotransposon DNA, partial LTR...	137	3e-28
gb EU949251.1  Zea mays clone 400160 mRNA sequence	111	2e-20
emb AJ312473.1  Zea mays Grande retrotransposon DNA, partial LTR...	109	6e-20
gb AC206303.5  Zea mays BAC clone CH201-328A17 from chromosome 5...	92	1e-14
gb EF468503.1  Zea mays clone pBK118-4 retrotransposon GrandeB, ...	92	1e-14
emb AJ312503.1  Zea mays subsp. mexicana Grande retrotransposon ...	86	9e-13
gb AY883559.2  Zea mays cultivar inbred line B73 teosinte glume ...	84	3e-12
gb EF468507.1  Zea mays clone pBK118-8 LL repeat sequence	82	1e-11
gb EF190066.1  Zea mays clone PS53 chromosome B, genomic sequence	82	1e-11
gb AC209386.4  Zea mays BAC clone CH201-98J13 from chromosome 5, ...	80	5e-11
gb AC229879.2  Zea mays BAC clone CH201-103M12 from chromosome 8...	76	8e-10
gb FJ386423.1  Zea mays clone R6-b StarkB element, partial sequence	74	3e-09
gb EF468510.1  Zea mays clone pBS-1 LL repeat sequence	74	3e-09
gb EF468508.1  Zea mays clone pB3-201 retrotransposon GrandeB, c...	74	3e-09
gb EF190064.1  Zea mays clone pStark5.5 chromosome B, genomic se...	74	3e-09
gb EF190061.1  Zea mays clone FS2_19 chromosome B, genomic sequence	74	3e-09
emb AJ312504.1  Zea mays subsp. mexicana Grande retrotransposon ...	74	3e-09
gb AC194842.4  Zea mays BAC clone CH201-514N20 from chromosome 4...	72	1e-08
gb EF190062.1  Zea mays clone FS2_20 chromosome B, genomic sequence	72	1e-08
gb AC204937.4  Zea mays BAC clone CH201-488A19 from chromosome 5...	70	5e-08
gb AC205029.6  Zea mays BAC clone CH201-7M14 from chromosome 5, ...	70	5e-08
gb EF190050.1  Zea mays clone 46F3FF5Rm4 chromosome B, genomic s...	70	5e-08
gb FJ386429.1  Zea mays clone R9-b StarkB element, partial sequence	66	8e-07

gb FJ386412.1	Zea mays clone L5-a StarkB element, partial sequence	66	8e-07
gb EF468504.1	Zea mays clone pBK118-5 LL repeat sequence	66	8e-07
gb EF468502.1	Zea mays clone pBK118-3 LL repeat sequence	66	8e-07
gb EF190065.1	Zea mays clone PS52 chromosome B, genomic sequence	66	8e-07
gb EF190063.1	Zea mays clone FS3_49 chromosome B, genomic sequence	66	8e-07
gb DQ183075.1	Zea mays clone A-RGA7 resistance gene analog-like...	66	8e-07
gb EF468505.1	Zea mays clone pBK118-6 LL repeat sequence	64	3e-06
gb FJ386419.1	Zea mays clone R4-b StarkB element, partial sequence	62	1e-05
gb EF190048.1	Zea mays clone 46F3FF5Rm1 chromosome B, genomic s...	62	1e-05
gb AY574035.1	Zea mays rust resistance protein rp3-1 (rp3-1) ge...	62	1e-05
gb AC185486.5	Zea mays BAC clone CH201-162J17 from chromosome 5...	60	5e-05
gb AC225631.3	Zea mays BAC clone CH201-111A2 from chromosome 8,...	60	5e-05
gb FJ386425.1	Zea mays clone R7-b StarkB element, partial sequence	58	2e-04
gb EF468506.1	Zea mays clone pBK118-7 LL repeat sequence and re...	58	2e-04
gb EF468500.1	Zea mays clone pBK118-1 LL repeat sequence and re...	58	2e-04
gb AC165174.2	Zea mays clone ZMMBBb-127F19, complete sequence	58	2e-04
emb AJ312460.1	Zea mays Grande retrotransposon DNA, partial LTR...	58	2e-04
gb EZ064107.1	TSA: Zea mays contig65230, mRNA sequence	56	8e-04
gb FJ386416.1	Zea mays clone L7-a StarkB element, partial sequence	54	0.003
gb FJ386414.1	Zea mays clone L6-a StarkB element, partial sequence	54	0.003
gb EU965848.1	Zea mays clone 289347 hypothetical protein mRNA, ...	54	0.003
gb BT043326.1	Zea mays full-length cDNA clone ZM_BFc0158M15 mRN...	54	0.003
gb EF468511.1	Zea mays clone pBS-2 LL repeat sequence	54	0.003
gb EU338354.1	Zea mays cultivar W22 bz gene locus, complete seq...	54	0.003
gb EF190051.1	Zea mays clone 46F3FF5Rm5 chromosome B, genomic s...	54	0.003
gb EF190049.1	Zea mays clone 46F3FF5Rm3 chromosome B, genomic s...	54	0.003
gb EF190044.1	Zea mays clone 46F3FF4R-4 chromosome B, genomic s...	54	0.003
gb AC196084.4	Zea mays BAC clone CH201-52A17 from chromosome 5,...	52	0.012
gb AC194844.5	Zea mays BAC clone CH201-463C23 from chromosome 5...	52	0.012
gb AC229876.2	Zea mays BAC clone CH201-115J9 from chromosome 8,...	52	0.012
gb BT069726.1	Zea mays full-length cDNA clone ZM_BFb0216P01 mRN...	52	0.012
gb EU952061.1	Zea mays clone 1145983 hypothetical protein mRNA,...	52	0.012
gb AC165267.2	Zea mays clone ZMMBBb-151F20, complete sequence	52	0.012
gb EF190053.1	Zea mays clone 46F3FF5Rs2 chromosome B, genomic s...	50	0.048
gb EF190052.1	Zea mays clone 46F3FF5Rs1 chromosome B, genomic s...	50	0.048
gb EF190043.1	Zea mays clone 46F3FF4R-3 chromosome B, genomic s...	50	0.048
gb AC160211.1	Genomic seqeunce for Zea mays BAC clone ZMMBBb044...	50	0.048
gb AY555142.1	Zea mays BAC clone c573F08, complete sequence	50	0.048
gb AC207417.4	Zea mays BAC clone CH201-186N18 from chromosome 5...	48	0.19
gb AC206691.5	Zea mays BAC clone CH201-149B20 from chromosome 1...	48	0.19
gb AC211313.4	Zea mays BAC clone CH201-9J2 from chromosome 5, c...	48	0.19
gb AC203072.5	Zea mays BAC clone CH201-26J18 from chromosome 6,...	48	0.19
gb AC230040.3	Zea mays BAC clone CH201-122P19 from chromosome 7...	48	0.19
gb AC203533.4	Zea mays BAC clone CH201-452L5 from chromosome 5,...	48	0.19
gb AC210997.6	Zea mays BAC clone CH201-545A13 from chromosome 5...	48	0.19
gb AC209754.5	Zea mays BAC clone CH201-23E16 from chromosome 5,...	48	0.19
emb AM489152.2	Vitis vinifera contig VV78X015348.8, whole genom...	48	0.19
gb DQ493649.1	Zea mays cultivar Coroico bz locus region	48	0.19
gb AC152494.1	Zea mays BAC clone Z418K17, complete sequence	48	0.19

gb DQ002407.1	Zea mays copia retrotransposon opie1, gypsy retro...	48	0.19
gb AC124722.3	Mus musculus BAC clone RP23-389E7 from chromosome...	48	0.19
gb AC159713.6	Mus musculus 6 BAC RP24-317F6 (Roswell Park Canc...	48	0.19
gb AC090648.5	Genomic sequence for Mus musculus, clone RP23-331...	48	0.19
emb AL772329.14	Zebrafish DNA sequence from clone CH211-150D5 i...	48	0.19
gb AF546188.1	Contiguous genomic DNA sequence comprising the 19...	48	0.19
gb AF466932.1	Zea mays clone BAC 206C17, complete sequence	48	0.19
emb X68678.1	Z. mays gene for cyclophilin	48	0.19
gb AY664415.1	Zea mays cultivar B73 locus 9009, complete sequence	48	0.19
emb X82087.1	Z. diploperennis Grande1 gene	48	0.19
gb AC203284.4	Zea mays BAC clone CH201-504M1 from chromosome 5,...	46	0.75
gb FJ386410.1	Zea mays clone L4-a StarkB element, partial sequence	46	0.75
gb AC226723.4	Zea mays BAC clone CH201-110I20 from chromosome 6...	46	0.75
gb AC231746.2	Zea mays BAC clone CH201-98H14 from chromosome 6,...	46	0.75
gb CP001078.1	Clostridium botulinum E3 str. Alaska E43, complet...	46	0.75
gb AC205914.3	Pongo abelii BAC clone CH276-7K14 from chromosome...	46	0.75
dbj AP009179.1	Sulfurovum sp. NBC37-1 genomic DNA, complete genome	46	0.75
gb EF190046.1	Zea mays clone 46F3FF4R-H2 chromosome B, genomic ...	46	0.75
gb EF190045.1	Zea mays clone 46F3FF4R-H1 chromosome B, genomic ...	46	0.75
gb AC187724.2	Pan troglodytes BAC clone CH251-318015 from chrom...	46	0.75
gb AC183623.3	Pan troglodytes BAC clone CH251-49H23 from chromo...	46	0.75
gb AC165172.2	Zea mays clone CH201-171E16, complete sequence	46	0.75
gb AC134822.19	Medicago truncatula clone mth2-15j20, complete s...	46	0.75
gb AC147708.7	Canis Familiaris, clone XX-25G10, complete sequence	46	0.75
gb AF466202.2	Zea mays putative pol protein gene, partial cds; ...	46	0.75
gb AF466203.1	Zea mays clone ZMBBb_0092E12, partial sequence	46	0.75
emb AJ312444.1	Zea mays Grande retrotransposon DNA, partial LTR...	46	0.75
gb AF050437.1	Zea mays retrotransposon Grande-Zm1 3' LTR, parti...	46	0.75
gb U68403.1	ZMU68403 Zea mays retrotransposon Grande-Zm 5' LTR a...	46	0.75
gb AE000666.1	Methanothermobacter thermautotrophicus str. Delta...	46	0.75
gb AC204225.4	Zea mays BAC clone CH201-427P14 from chromosome 5...	44	3.0
gb AC190571.5	Zea mays BAC clone CH201-151G9 from chromosome 5,...	44	3.0
emb CU207403.3	Pig DNA sequence from clone CH242-522I21 on chro...	44	3.0
gb EZ077797.1	TSA: Zea mays contig13436, mRNA sequence	44	3.0
ref XM_001909862.1	Podospora anserina DSM 980 hypothetical prot...	44	3.0
emb CU638744.1	Podospora anserina genomic DNA chromosome 6, sup...	44	3.0
gb EF396164.1	Zea mays nitrilase 2 (NIT2) gene, complete cds	44	3.0
gb EF190047.1	Zea mays clone 46F3FF4R-H3 chromosome B, genomic ...	44	3.0
gb EF190042.1	Zea mays clone 46F3FF4R-2 chromosome B, genomic s...	44	3.0
gb AC182574.2	Mimulus guttatus clone MGBa-83E5, complete sequence	44	3.0
gb AC188446.2	Gallus gallus BAC clone CH261-122M13 from chromos...	44	3.0
gb CP000393.1	Trichodesmium erythraeum IMS101, complete genome	44	3.0
gb AC115727.10	Mus musculus chromosome 3, clone RP23-30A13, com...	44	3.0
gb AC110735.6	Mus musculus chromosome 1, clone RP24-123P22, com...	44	3.0
gb AC107851.17	Mus musculus chromosome 9, clone RP23-451B4, com...	44	3.0
gb AC112971.8	Mus musculus chromosome 1, clone RP24-444M12, com...	44	3.0
gb AC137002.2	Oryza sativa (japonica cultivar-group) chromosome...	44	3.0
gb AC137128.17	Mus musculus chromosome 3, clone RP24-271G16, co...	44	3.0
gb AF394561.1	Oryza sativa alpha-expansin OsEXPA26 (EXPA26) gen...	44	3.0

gb AC121523.6	Mus musculus chromosome 18, clone RP24-92N23, com...	44	3.0
gb AC161177.4	Mus musculus chromosome 18, clone RP24-131H12, co...	44	3.0
gb AC074327.6	Homo sapiens chromosome 10 clone RP11-556E13, com...	44	3.0
tpg BK000854.1	TPA: TPA_inf: Oryza sativa transposon Rim2-M255,...	44	3.0
gb AC113420.2	Homo sapiens chromosome 5 clone RP11-586E1, compl...	44	3.0
emb AL513013.12	Human DNA sequence from clone RP5-990P15 on chr...	44	3.0
emb AL606923.8	Human DNA sequence from clone RP11-361F19 on chr...	44	3.0
emb AL357873.17	Human DNA sequence from clone RP11-344F13 on ch...	44	3.0
gb AC093256.2	Homo sapiens chromosome 5 clone RP11-182I24, comp...	44	3.0
emb AL592043.7	Human DNA sequence from clone RP11-281B1 on chro...	44	3.0
emb AL583825.8	Human DNA sequence from clone RP11-362H12 on chr...	44	3.0
gb AC155725.3	Mus musculus 6 BAC RP24-231N5 (Roswell Park Cance...	44	3.0
emb AL645990.14	Mouse DNA sequence from clone RP23-403C12 on ch...	44	3.0
dbj AP004222.3	Oryza sativa Japonica Group genomic DNA, chromos...	44	3.0
gb AC097720.5	Homo sapiens BAC clone RP11-1422N15 from 2, compl...	44	3.0
dbj AP003563.3	Oryza sativa Japonica Group genomic DNA, chromos...	44	3.0
emb AJ312483.1	Zea mays Grande retrotransposon DNA, partial LTR...	44	3.0
emb AJ312451.1	Zea mays Grande retrotransposon DNA, partial LTR...	44	3.0
emb CT025562.10	Mouse DNA sequence from clone RP24-225012 on ch...	44	3.0
gb AC155715.24	Mus musculus 10 BAC RP24-118H2 (Roswell Park Can...	44	3.0
gb AC153847.7	Mus musculus 10 BAC RP23-286J11 (Roswell Park Can...	44	3.0
gb AC132599.3	Mus musculus BAC clone RP24-131O15 from 3, comple...	44	3.0
gb AC131696.4	Mus musculus BAC clone RP23-403E5 from 1, complet...	44	3.0
gb AC110817.6	Mus musculus BAC clone RP23-155B20 from 13, compl...	44	3.0
emb AL935152.9	Mouse DNA sequence from clone RP24-387M5 on chro...	44	3.0
emb AL731742.3	Oryza sativa chromosome 12, . BAC OJ1123_B09 of ...	44	3.0
dbj AP001359.4	Homo sapiens genomic DNA, chromosome 11q clone:R...	44	3.0
dbj AP000755.4	Homo sapiens genomic DNA, chromosome 11q clone:R...	44	3.0

>gb|AC165175.2| Zea mays clone ZMMBBb-136N21, complete sequence  
Length = 129274

Score = 363 bits (183), Expect = 2e-96  
Identities = 463/552 (83%), Gaps = 7/552 (1%)  
Strand = Plus / Minus

Query: 1298 tggtggggatagatatccccg-ggtccactagaaggcgagaaggctcgctgtggcac 1356  
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 46811 tggtggggacagatatacccccaggtccactagaaggcgaaaggctcgctgcggcc 46752

Query: 1417 ggctgaccgaagaaggcaacagactcgagccaaacaatccatcggtcgctatcc 1476

Sbjct: 46691 ggccgacctaagaaggcgacggactcgagccaatcagtccatcaaattgtgcactatcc 46632

Query: 1477 acagaaaactaccgactttccggcgcatggcatcctagaatatcgccgtatttagggat 1536

Sbjct: 46631 aaagaaaaccgtccgactttccccacgcattggcgccctaaatgtcgtag---attagggt 46575

Sbjct: 46574 aagtccggggattttcgggagatcagttcagtcaattcactattattaggggacatgt 46515

Query: 1597 gatcctcatgtacgtatggagtccccacggtcgttatataaggccagggtaaaaa 1656

Sbjct: 46514 gatcaaatatgtacgtatggagtccccactgtcgttatataaggcccaggggaaacccc 46455

Query: 1657 atcatttctatcgaccatctacctatctcatcagtttccattcaggagacctcgct 1716

Sbjct: 46454 atcatttcattc-ccatctacttatctcatttagctttctccattcaggaaacaccgct 46396

Query: 1717 tgtaaccaccacatatacatccaaagaagtgttattacgcctctctaagcggc 1776

Subject: 46395 tgtaacccaccataatacagctccacccttaggaagtatggattacaccccttccaaggcgc 46336

Query: 1777 ccaaaacttgcagaaaaccgcctatccctctcggtcgccagcacgaaccattgagtt 1836

Subject: 46335 ccaaacatgcagaaaaatcgctgt--ctctctcggtgtccagcacgaaccattgagttt 46278

Query: 1837 caatcaacagca 1848

— 1 —

Sbjct: 46277 caatcaacagca 46266

>ref|NM\_001152615.1| Zea mays hypothetical protein LOC100279619 (LOC100279619), mRNA

>gi|219885622|gb|BT054579.1| Zea mays full-length cDNA

clone ZM\_BFc0162011 mRNA, complete cds

Length = 2299

Score = 305 bits (154), Expect = 5e-79

Identities = 436/527 (82%), Gaps = 11/527 (2%)

Strand = Plus / Minus

Query: 1308 agatatatccccgggtccactagaaggcgagaaggcctgcgtggccacggccagttac 1367

||||||||| || |||||||| | ||||||| || ||||| |||||  
Sbjct: 1708 agatatccctggatccactagaatgcgagaaggctcggtgggcctcggtttac 1649

Query: 1368 cccgcaaggccatccctcgtgggtcgagctagaattactggtagaatgggtgaccgaa 1427  
| ||||||| | ||||| | ||||| | | | | | ||||| | ||||| |  
Sbjct: 1648 ctgcgaagaccatctcctcgtgagccaggcaaaagctaattggcgtaatggccgacttga 1589

Query: 1428 gaaggcaacagactcgagccaaacaatccatcggtcgctatccacagaaactac 1487  
| ||||||| | ||||| | |||| | ||||| | |||| | ||||| | ||||| |  
Sbjct: 1588 gaaggcaacggcctcgaacccagacaatcc-tcgactcgctatccacagaaaccac 1530

Query: 1488 ccgactttccggcgcatggcattccatggatcgatccatcggtcgctatccacagaaactac 1547  
| ||||||| | ||||| | |||| | ||||| | |||| | ||||| | ||||| |  
Sbjct: 1529 ccgactttccacgcattggcgtcctcgaatatcggtcgatgttaggatcggtcgat 1470

Query: 1548 attttcgaaagatttagttcagtttcgttattatatttaggagacatatga-tcctcatg 1606  
| | | | | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |  
Sbjct: 1469 gttgttagggatcagttcagtcgtttactataatttaggagacacgtgaatcctcatg 1410

Query: 1607 tacgtatggagtccccacggcgttatataaggccatgggtacccatcatttcta 1666  
| | | | | ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |  
Sbjct: 1409 tatgtatttgcctacggctatataaggcca-aggtaacaccatcatttca 1351

Query: 1667 tcgaccatctacctatctcatcagtttccattcaggagacctcggtgttaacccac 1726  
| ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |  
Sbjct: 1350 tcgaccatttacctatctcattagctttccattcaggaaacttcgttg----- 1299

Query: 1727 cacatataccatccaaagaagtagtgttattacgcctcttaagcgccaaactgc 1786  
| | | | | ||||| | ||||| | ||||| | ||||| | ||||| | | |  
Sbjct: 1298 cacttatataccacaagaagtagggattacgcctcttaagcgccaaacctac 1239

Query: 1787 agaaaaccgcctatccctctcggtcgccagcacgaaccatttag 1833  
| | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 1238 agaaaatcattttacctctcggtcgccagcacgaaccatttag 1192

>gb|EF468501.1| Zea mays clone pBK118-2 retrotransposons GrandeB, complete sequence  
Length = 15217

Score = 196 bits (99), Expect = 3e-46  
Identities = 277/332 (83%), Gaps = 7/332 (2%)

Strand = Plus / Minus

Subjct: 5721 ggccggatttagggatgagtcgggtggatttggggagatcagttcaagtccgttcaactatta 5662

Query: 1583 tttaggagacatatgtatgtacgtatggagtgcacggctgttatataagg 1642  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Subjct: 5661 gtttaggagacatatgtatcatcatgtacgttggagtccccacggtcgagtatataa-gt 5603

Query: 1643 ccagagggtacccatcattctatcgaccatcacctatctcatcagtttctccatt 1702  
|| ||| ||||| ||||| ||| ||| ||| ||| ||| ||| |||

Subjct: 5602 cctagggaaacccatcatt-tat-taccatctaccatatctcatttagccctctccatt 5545

Sbjct: 5544 caggagacaccgcttgtaacaccccacatacagatccgccttagaagttagggtaatacg 5485

Sbjct: 5484 cctctccaagtgacccgaacttgcagaaaattgcatgtctctctctttctgtccca 5425

Query: 1819 gcacgaaccattgagttacaatcaacagcacc 1850

Sbjct: 5424 gcatgaaccattgagctacagtcaacaacacc 5393

Score = 63.9 bits (32), Expect = 3e-06

Identities = 32/32 (100%)

Strand = Plus / Plus

Query: 1819 gcacgaaccattgagttacaatcaacagcacc 1850

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

Sbjct: 11406 gcacgaaccattgagttacaatcaacagcacc 11437

Score = 44.1 bits (22). Expect = 3.0

Identities = 40/46 (86%)

Strand ≡ Plus / Plus

Query: 1616 agtccccacgtcgatataaggccagagggtacccatcat 1661  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 11194 agtccccacgtcgaatatataaggccatggggtaccctatcat 11239

>emb|AJ312478.1| Zea mays Grande retrotransposon DNA, partial LTR, clone W12  
Length = 437

Score = 137 bits (69), Expect = 3e-28  
Identities = 130/149 (87%), Gaps = 1/149 (0%)  
Strand = Plus / Plus

Query: 1675 ctacctatctcatcagctttctccattcaggagacctcgcttgtaaccaccata 1734  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 349 caaccttatctcatttagctttcttcattcaggagacttcagttgttaaccaccataaa 408

Query: 1735 gatccatccaaagaagtagtgtattacgc 1763  
          ||||||| |||| |||||||| ||| |||||||  
Sbjct: 409 gatccacaccaggaaagttagggtgttacgc 437

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

>gb|EU949251.1| Zea mays clone 400160 mRNA sequence  
Length = 709

Score = 111 bits (56), Expect = 2e-20  
Identities = 117/136 (86%), Gaps = 1/136 (0%)  
Strand = Plus / Minus

Query: 1715 ctgttaaccacccatatacatccatccaaagaagtgtattacgcctctaagcg 1774

Sbjct: 528 cttgttaaccaccacataaagatccttaccaggaagttagggtattacgcctccaagtg 469  
||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Query: 1775 gccccaaacttgcagaaaaccgcctatccctctcggtccagcacgaaccattgagt 1834  
||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 468 gcccgaacctgttagaaaatcgccgt-cgtctctcgcatttgtacgaaccattgagt 410

Query: 1835 tacaatcaacagcacc 1850  
||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 409 tacaatcaaaaggcacc 394

>emb|AJ312473.1| Zea mays Grande retrotransposon DNA, partial LTR, clone PT17  
Length = 457

Score = 109 bits (55), Expect = 6e-20  
Identities = 112/131 (85%)  
Strand = Plus / Plus

Query: 1533 ggatgagtcacgagatttcggaagatttagttcagttgttcgtattatttaggagac 1592  
||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 207 ggatgagtcacgatgttcgttagattggttcagttcactatttaggagat 266

Query: 1593 atatgatccatgtacgtatggagtccccacggcgtgtatataagggtccagaggta 1652  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 267 acgtgatcatcatgtacgtatggagtgcctatggcgtgtatataaggccaaaggaa 326

Query: 1653 ccccatcattt 1663  
||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 327 ccccatcattt 337

Score = 44.1 bits (22), Expect = 3.0  
Identities = 37/42 (88%)  
Strand = Plus / Plus

Query: 1699 cattcaggagacctcgcttgttaaccaccacatatacatatagatcca 1740  
||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 393 cattcaggagacaccacttgtaacacaccacatacagatcca 434

>gb|AC206303.5| Zea mays BAC clone CH201-328A17 from chromosome 5, complete sequence

Length = 168620

Score = 91.7 bits (46), Expect = 1e-14  
Identities = 107/126 (84%), Gaps = 1/126 (0%)  
Strand = Plus / Plus

Query: 1126 tataga 1131  
| | | | |  
Sbjct: 97545 tataga 97550

>gb|EF468503.1| Zea mays clone pBK118-4 retrotransposon GrandeB, complete sequence  
Length = 13396

Score = 91.7 bits (46), Expect = 1e-14  
Identities = 82/94 (87%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatccccgggtccactagaaggcgagaaggcctgcgttgccacg 1357  
||||||| ||||||| ||||||| ||||||| ||||| |||||  
Sbjct: 2078 tgtggggacagatatccccgggtccactagaaggcaagaaggcgtgcgaaaggcctcg 2137

Query: 1358 ggccagttaccccgcaaggccatcccttcgtggg 1391  
||||| ||||| ||||||| ||||| |||||  
Sbjct: 2138 ggcccattatttcgcaggccatcccttcgtggg 2171

Score = 54.0 bits (27), Expect = 0.003  
Identities = 55/63 (87%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1776 ccc 1778

|||

Sbjct: 2563 ccc 2565

>emb|AJ312503.1| Zea mays subsp. mexicana Grande retrotransposon DNA, partial LTR,  
clone ZMM15  
Length = 437

Score = 85.7 bits (43), Expect = 9e-13

Identities = 135/165 (81%), Gaps = 3/165 (1%)

Strand = Plus / Plus

Query: 1602 tcatgtacgtatggagtccccacggtcgttatataaggtccagaggtaacccatcat 1661

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

Sbjct: 273 tcatatacgcacgtatggagtccccacggtaagttataaggcctaggggccccatcaa 332

Query: 1662 ttc---tatcgaccatctacctatctcatcagctttctccattcaggagacctcgctt 1718

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

Sbjct: 333 aacatataatcgaccatctactcagctcaacttagctttctccataccggagacttccctt 392

Query: 1719 taacccaccacatatacatccatccaagaagtagtgtattacgc 1763

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

Sbjct: 393 taacctaccacataaagatccatgccaggaagtaggggttacgc 437

>gb|AY883559.2| Zea mays cultivar inbred line B73 teosinte glume architecture 1 (tga1)

gene, complete cds

Length = 169976

Score = 83.8 bits (42), Expect = 3e-12

Identities = 57/62 (91%)

Strand = Plus / Plus

Query: 1717 tgtaacccaccacatatacatccatccaagaagtagtgtattacgcctctctaagcggc 1776

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

Sbjct: 94023 tgtaacccaccacataaagatccacaccaggaaagtagggattacgcctctctaagcggc 94082

Query: 1777 cc 1778

||

Sbjct: 94083 cc 94084

Score = 60.0 bits (30), Expect = 5e-05  
Identities = 46/50 (92%), Gaps = 1/50 (2%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccactagaaggcgagaaggcctcg 1346  
||||||| ||||||||| ||||||||| ||||||||| |||||||||  
Sbjct: 93595 tgtggggacagatatccccgggtccactagaaggtagaaggcctcg 93644

>gb|EF468507.1| Zea mays clone pBK118-8 LL repeat sequence  
Length = 13598

Score = 81.8 bits (41), Expect = 1e-11  
Identities = 87/101 (86%), Gaps = 1/101 (0%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatat-ccccgggtccactagaaggcgagaaggcctcg 1355  
||||||| ||||| ||||||||| ||||||||| |||||  
Sbjct: 6737 ttgtggggacagatattccccgggtccactagaaggcaagaaggcctcac 6796

Query: 1356 cgggccagttaaaaaaaggccatccctcggtggcgag 1396  
||||||| ||| ||||||||| |||||||||  
Sbjct: 6797 cggcccattttcgcaaggccacccttcgtggcgag 6837

Score = 50.1 bits (25), Expect = 0.048  
Identities = 40/45 (88%)  
Strand = Plus / Plus

Query: 1734 agatccatccaaagaagttagtgtattacgcctctctaagcg 1778  
||||||| ||| ||||||| ||| ||||||||| |||||||||  
Sbjct: 7182 agatccaaaccaggaagttaggtgtacgcctctctaagcg 7226

>gb|EF190066.1| Zea mays clone PS53 chromosome B, genomic sequence  
Length = 16207

Score = 81.8 bits (41), Expect = 1e-11  
Identities = 87/101 (86%), Gaps = 1/101 (0%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctcgctgtggca 1355  
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 10502 ttgtggggacagatatccccgggtccactagaaggcaagaaggcctcacgaaaggcct 10443

Score = 54.0 bits (27), Expect = 0.003  
Identities = 58/67 (86%), Gaps = 1/67 (1%)  
Strand = Plus / Minus

Query: 1717 tgtaacccaccatata-gatccatccaaagaagttagtgtattacgcctctaagcgg 1775  
||||||| ||||| | | ||||| ||| ||| ||| ||| |||  
Sbjct: 10074 tgtaatccaccacataaaagatccacaccagaagttaggttacgcctttaagcgg 10015

Query: 1776 cccaaac 1782  
          |||||||  
Sbjct: 10014 cccaaac 10008

>gb|AC209386.4| Zea mays BAC clone CH201-98J13 from chromosome 5, complete sequence  
Length = 196028

Score = 79.8 bits (40), Expect = 5e-11  
Identities = 83/96 (86%), Gaps = 1/96 (1%)  
Strand = Plus / Minus

Query: 1356 cgggccagttaccccgcaaggccatccctcggtggg 1391  
          ||||||| |||| | | | | | | | | | | | | | | | | | | | |  
Sbjct: 112064 cgggccattatttcgcgaaggccatccctcggtggg 112029

Score = 54.0 bits (27), Expect = 0.003  
Identities = 55/63 (87%), Gaps = 1/63 (1%)  
Strand = Plus / Minus

Query: 1717 tgtaacccaccacatat-agatccatcccaagaagtagtgttattacgcctctaagcgg 1775  
          ||||||| ||||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 111697 tgtaacctaccacataagagatccacgccagaagtagggtgttacgcctctaagcgg 111638

Query: 1776 ccc 1778  
|||  
Sbjct: 111637 ccc 111635

Score = 50.1 bits (25), Expect = 0.048  
Identities = 31/33 (93%)  
Strand = Plus / Plus

Query: 1806 tctcggtccaggcacgaaccattgagttaca 1838  
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 160739 tctcggtccaggcacgaaccattgagctaca 160771

>gb|AC229879.2| Zea mays BAC clone CH201-103M12 from chromosome 8, complete sequence  
Length = 175468

Score = 75.8 bits (38), Expect = 8e-10  
Identities = 102/122 (83%), Gaps = 1/122 (0%)  
Strand = Plus / Minus

Query: 1837 ca 1838  
||  
Sbjct: 122348 ca 122347

Score = 50.1 bits (25), Expect = 0.048  
Identities = 35/37 (94%), Gaps = 1/37 (2%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaagg 1332  
||| ||| ||| ||| ||| ||| |||  
Sbjct: 122894 ttgtggggacagatatccccgggtccactagaagg 122858

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatat-ccccgggtccacta 1327  
||| ||| ||| ||| ||| |||  
Sbjct: 25568 ttgtggggatagatatccccgggtccacta 25537

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatat-ccccgggtccacta 1327  
||| ||| ||| ||| |||  
Sbjct: 39115 tgtggggatagatatccccgggtccacta 39085

>gb|FJ386423.1| Zea mays clone R6-b StarkB element, partial sequence  
Length = 3194

Score = 73.8 bits (37), Expect = 3e-09  
Identities = 86/101 (85%), Gaps = 1/101 (0%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctcgctgtggcca 1355  
||| ||| ||| ||| ||| ||| ||| |||  
Sbjct: 1198 ttgtggggacagatatccccgggtccactagaaggcaagaaggcctcacgaaaggcct 1257

Query: 1356 cgggccagtacccgcaggcatccctcggtggcgag 1396  
||| ||| ||| ||| ||| |||  
Sbjct: 1258 cgggccattttcgcaaggccaccctcggtggccgag 1298

>gb|EF468510.1| Zea mays clone pBS-1 LL repeat sequence  
Length = 14009

Score = 73.8 bits (37), Expect = 3e-09  
Identities = 86/101 (85%), Gaps = 1/101 (0%)  
Strand = Plus / Plus

Query: 1356 cgggccagttacccgcaaggccatccctcgtaaaatggtcgag 1396  
          |||||||    |||||    |||||||||    |||||||||||    |||||  
Sbjct: 13900 cgggcccattatttcgcaaggccacccctcgtaaaatggccgag 13940

Score = 61.9 bits (31), Expect = 1e-05  
Identities = 56/63 (88%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaacccaccacatata-gatccatccaaagaagtagtgttattacgcctctctaaggcg 1775  
          ||||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 5047 tgtaacccaccacataaaagatccacaccaggaaagttaggtttacgcctctctaaggcg 5106

Query: 1776 ccc 1778  
|||  
Sbjct: 5107 ccc 5109

Score = 60.0 bits (30), Expect = 5e-05  
Identities = 43/46 (93%), Gaps = 1/46 (2%)  
Strand = Plus / Plus

Query: 1300 tggggatagatatccc-cgggtccactagaaggcgagaaggcctc 1344  
Sbjct: 4622 tggggacagatatccctcggtccactagaaggcaagaaggcctc 4667

>gb|EF468508.1| Zea mays clone pB3-201 retrotransposon GrandeB, complete sequence  
Length = 13066

Score = 73.8 bits (37), Expect = 3e-09  
Identities = 86/101 (85%), Gaps = 1/101 (0%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctcgctgtggcca 1355  
||||||| ||||||||| ||||||||| ||||||||| |||||  
Sbjct: 7923 ttgtggggacagatatccccgggtccactagaaggcaagaaggcctcacgaaaggcct 7982

Query: 1356 cgggccagttaaaaaaacaaggccatccctcggtggtcgag 1396  
||||||| ||| ||||||||| ||||||||| |||||  
Sbjct: 7983 cggcccattttcgcaaggccacccttcgtggccgag 8023

>gb|EF190064.1| Zea mays clone pStark5.5 chromosome B, genomic sequence  
Length = 5542

Score = 73.8 bits (37), Expect = 3e-09  
Identities = 86/101 (85%), Gaps = 1/101 (0%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctcgctgtggcca 1355  
||||||| ||||||||| ||||||||| ||||||||| |||||  
Sbjct: 4653 ttgtggggacagatatccccgggtccactagaaggcaagaaggcctcacgaaaggcct 4712

Query: 1356 cgggccagttaaaaaaacaaggccatccctcggtggtcgag 1396  
||||||| ||| ||||||||| ||||||||| |||||  
Sbjct: 4713 cggcccattttcgcaaggccacccttcgtggccgag 4753

>gb|EF190061.1| Zea mays clone FS2\_19 chromosome B, genomic sequence  
Length = 39598

Score = 73.8 bits (37), Expect = 3e-09  
Identities = 86/101 (85%), Gaps = 1/101 (0%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctcgctgtggcca 1355  
||||||| ||||||||| ||||||||| ||||||||| |||||  
Sbjct: 8574 ttgtggggacagatatccccgggtccactagaaggcaagaaggcctcacgaaaggcct 8633

Query: 1356 cgggccagttaaaaaaacaaggccatccctcggtggtcgag 1396  
||||||| ||| ||||||||| ||||||||| |||||  
Sbjct: 8634 cggcccattttcgcaaggccacccttcgtggccgag 8674

Score = 63.9 bits (32), Expect = 3e-06  
Identities = 83/100 (83%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatccccgggtccactagaaggcgagaaggcctgcgttgccac 1356  
||||||| |||||||| | || || || || || || || || || || |  
Sbjct: 28412 ttgtggggacagatatatccccgggtcactagaaggcaagaaggcctcacgaaaggcctc 28471

Query: 1357 gggccagttaccccgcaaggccatccctcgtggtcag 1396  
||| ||| ||| ||||||||| ||||||||| |||  
Sbjct: 28472 gggccattattcgcaagggccacccttcgtggccgag 28511

Score = 50.1 bits (25), Expect = 0.048  
Identities = 25/25 (100%)  
Strand = Plus / Plus

Query: 1758 ttacgcctctctaagcggccaaac 1782  
||| ||| ||| ||| ||| |||  
Sbjct: 8915 ttacgcctctctaagcggccaaac 8939

Score = 48.1 bits (24), Expect = 0.19  
Identities = 30/32 (93%)  
Strand = Plus / Plus

Query: 1747 gaagttagtgttacgcctctaagcgcccc 1778  
||| ||| ||| ||| ||| |||  
Sbjct: 28869 gaagttaggtttacgcctctaagcgcccc 28900

Score = 46.1 bits (23), Expect = 0.75  
Identities = 32/35 (91%)  
Strand = Plus / Plus

Query: 1804 tctctcggtcgccagcacgacaccattggatcata 1838  
          ||||| ||||| ||||| ||||| |||||  
Sbjct: 8960 tctctcggtcgccagcacgacaccatcgagtcata 8994

>emb|AJ312504.1| Zea mays subsp. mexicana Grande retrotransposon DNA, partial LTR,

clone ZMM16  
Length = 434

Score = 73.8 bits (37), Expect = 3e-09  
Identities = 98/117 (83%), Gaps = 1/117 (0%)  
Strand = Plus / Plus

Query: 1676 tacctatctcatcagtttccattcaggagacctcgctgtaaaccaccata 1732  
||| | |||| | ||||||| |||| | ||| ||| ||| |||  
Sbjct: 349 tactcagctcaactagtttccataaaggaga-ttccctgtaaaccaccata 404

>gb|AC194842.4| Zea mays BAC clone CH201-514N20 from chromosome 4, complete sequence  
Length = 156840

Score = 71.9 bits (36), Expect = 1e-08  
Identities = 49/52 (94%), Gaps = 1/52 (1%)  
Strand = Plus / Plus

Score = 54.0 bits (27), Expect = 0.003  
Identities = 51/59 (86%)  
Strand = Plus / Plus

Query: 1719 taacccaccacatatacatccaaagaagtagtgttacgcctctaaggcgccc 1777  
||| ||||| ||||| || | ||||| || | ||||| || | |||||  
Sbjct: 148845 taacccaccacataaagatccacatcaggaagtaggggttacacctctaaggcgccc 148903

>gb|EF190062.1| Zea mays clone FS2\_20 chromosome B, genomic sequence  
Length = 39210

Score = 71.9 bits (36), Expect = 1e-08  
Identities = 82/96 (85%), Gaps = 1/96 (1%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctcgctgtggcca 1355  
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 9984 ttgtggggacagatatccccggtccactagaaggcaagaaggcctacgaaaggcct 9925

Query: 1356 cgggccagttacccgcgaaggccatccctcggtgg 1391  
||||| |||| ||||| ||||| ||||| |||||

Sbjct: 9924 cggcccattattcgcaaggccacccttcgtgg 9889

Score = 65.9 bits (33), Expect = 8e-07  
Identities = 46/49 (93%), Gaps = 1/49 (2%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctc 1344  
||||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 19216 ttgtggggacagatatccccggtccactagaaggcaagaaggcctc 19168

Score = 54.0 bits (27), Expect = 0.003  
Identities = 55/63 (87%), Gaps = 1/63 (1%)  
Strand = Plus / Minus

Query: 1717 tgtaaccaccatata-gatccatccaaagaagttagtgtattacgcctctaagcgg 1775  
||||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 18788 tgtaaccaccataaaagatccacaccaggaaagttagggttacgcctctaagcgg 18729

Query: 1776 ccc 1778

|||

Sbjct: 18728 ccc 18726

Score = 44.1 bits (22), Expect = 3.0  
Identities = 53/62 (85%), Gaps = 1/62 (1%)  
Strand = Plus / Minus

Query: 1717 tgtaaccaccatata-gatccatccaaagaagttagtgtattacgcctctaagcgg 1775  
||||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 9556 tgtaaccaccataaaagatccacaccaggaaagttagggtctacgcctctaagcgg 9497

Query: 1776 cc 1777

||

Sbjct: 9496 cc 9495

>gb|AC204937.4| Zea mays BAC clone CH201-488A19 from chromosome 5, complete sequence  
Length = 152162

Score = 69.9 bits (35), Expect = 5e-08

Identities = 47/51 (92%)

Strand = Plus / Minus

Query: 1081 gttgggtgggtttacagagttaaactagcggattatatagtggataga 1131

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

Sbjct: 119042 gttgggtgggtttgcaaagttaaacttgtggattatatagtggataga 118992

>gb|AC205029.6| Zea mays BAC clone CH201-7M14 from chromosome 5, complete sequence  
Length = 187257

Score = 69.9 bits (35), Expect = 5e-08

Identities = 47/51 (92%)

Strand = Plus / Plus

Query: 1081 gttgggtgggtttacagagttaaactagcggattatatagtggataga 1131

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

Sbjct: 171940 gttgggtgggtttgcaaagttaaacttgtggattatatagtggataga 171990

>gb|EF190050.1| Zea mays clone 46F3FF5Rm4 chromosome B, genomic sequence  
Length = 582

Score = 69.9 bits (35), Expect = 5e-08

Identities = 60/67 (89%), Gaps = 1/67 (1%)

Strand = Plus / Plus

Query: 1717 tgtaaccaccacatata-gatccatccaagaagttagtgttacgcctctctaagcgg 1775

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

Sbjct: 271 tgtaaccaccacataaaagatccataccaggaagttaggcttacgcctctctaagcgg 330

Query: 1776 cccaaac 1782

|||||||

Sbjct: 331 cccaaac 337

>gb|FJ386429.1| Zea mays clone R9-b StarkB element, partial sequence  
Length = 1264

Score = 65.9 bits (33), Expect = 8e-07  
Identities = 46/49 (93%), Gaps = 1/49 (2%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctc 1344  
||||||| ||||||||| ||||||||| ||||||||| |||||||||  
Sbjct: 1198 ttgtggggacagataccccgggtccactagaaggcaagaaggcctc 1246

>gb|FJ386412.1| Zea mays clone L5-a StarkB element, partial sequence  
Length = 1477

Score = 65.9 bits (33), Expect = 8e-07  
Identities = 46/49 (93%), Gaps = 1/49 (2%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctc 1344  
||||||| ||||||||| ||||||||| ||||||||| |||||||||  
Sbjct: 501 ttgtggggacagataccccgggtccactagaaggcaagaaggcctc 549

Score = 61.9 bits (31), Expect = 1e-05  
Identities = 59/67 (88%), Gaps = 1/67 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaaccaccacatata-gatccatccaaagaagtgtattacgcctctctaagcgg 1775  
||||| ||||||| | ||||| ||||| ||||| |||||||||  
Sbjct: 929 tgtaatccaccacataaaagatccacaccaggaaagttagggtttacgcctctctaagcgg 988

Query: 1776 cccaaac 1782  
|||||||  
Sbjct: 989 cccaaac 995

>gb|EF468504.1| Zea mays clone pBK118-5 LL repeat sequence  
Length = 14585

Score = 65.9 bits (33), Expect = 8e-07  
Identities = 46/49 (93%), Gaps = 1/49 (2%)  
Strand = Plus / Plus

Score = 46.1 bits (23), Expect = 0.75  
Identities = 32/35 (91%)  
Strand = Plus / Plus

Query: 1804 tctctcggtcgccagcacgaaccattgagttaca 1838  
          ||||| |||| | ||| ||| ||| |||  
Sbjct: 2693 tctctcggtcgatctagcacgaaccattgagctaca 2727

>gb|EF468502.1| Zea mays clone pBK118-3 LL repeat sequence  
Length = 14929

Score = 65.9 bits (33), Expect = 8e-07  
Identities = 46/49 (93%), Gaps = 1/49 (2%)  
Strand = Plus / Plus

Score = 58.0 bits (29), Expect = 2e-04  
Identities = 45/49 (91%), Gaps = 1/49 (2%)  
Strand = Plus / Plus

Score = 46.1 bits (23), Expect = 0.75  
Identities = 54/63 (85%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaaccaccatata-gatccatccaaagaagtagtgtattacgcctctaaggcg 1775

Sbjct: 1115 tgtaacccaccacataaaagatccacacaaggaagttagggtttacgcctctctaaggcag 1174

Query: 1776 ccc 1778

|||

Sbjct: 1175 ccc 1177

Score = 46.1 bits (23), Expect = 0.75

Identities = 32/35 (91%)

Strand = Plus / Plus

Query: 1804 tctctcggtccagcacgaaccattgagttaca 1838

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

Sbjct: 10022 tctctcgcatctagcacgaaccattgagctaca 10056

>gb|EF190065.1| Zea mays clone PS52 chromosome B, genomic sequence

Length = 14530

Score = 65.9 bits (33), Expect = 8e-07

Identities = 46/49 (93%), Gaps = 1/49 (2%)

Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctc 1344

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

Sbjct: 2213 ttgtggggacagatatccccgggtccactagaaggcaagaaggcctc 2261

Score = 60.0 bits (30), Expect = 5e-05

Identities = 55/62 (88%), Gaps = 1/62 (1%)

Strand = Plus / Plus

Query: 1717 tgtaacccaccacatata-gatccatccaaagaagttagtgttacgcctctctaaggcgg 1775

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

Sbjct: 2641 tgtaacccaccacataaaagatccacaccaggaaagttagggtttacgcctctctaaggcgg 2700

Query: 1776 cc 1777

||

Sbjct: 2701 cc 2702

>gb|EF190063.1| Zea mays clone FS3\_49 chromosome B, genomic sequence

Length = 38116

Score = 65.9 bits (33), Expect = 8e-07  
Identities = 46/49 (93%), Gaps = 1/49 (2%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctc 1344  
Sbjct: 32550 ttgtggggacagatatacccccgggtccactagaaggcaagaaggcctc 32598

Score = 50.1 bits (25), Expect = 0.048  
Identities = 50/57 (87%), Gaps = 1/57 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaaccaccacatata-gatccatccaaagaagttagtgtattacgcctctctaag 1772  
Sbjct: 32977 tgtaaccaccacataaaagatccacaccaggaaagtaggggttacgcctctctaag 33033

>gb|DQ183075.1| Zea mays clone A-RGA7 resistance gene analog-like gene, partial sequence  
Length = 319

Score = 65.9 bits (33), Expect = 8e-07  
Identities = 140/173 (80%), Gaps = 2/173 (1%)  
Strand = Plus / Minus

Query: 1607 tacgtatggagtccccca-cggtcgttatataaggccagaggtaaaaaatcatttct 1665  
Sbjct: 218 tacgcatgtatgtcccccagcggtcgagtatataaggccatggggtaaaaaatcatttca 159

Query: 1666 atcgaccatctacctatctcatcagctttccattcaggagacctcgctgt-aaccc 1724  
Sbjct: 158 atcaaccatgtactcaactcattatccttccatactggagacttctgtaaactg 99

Query: 1725 accacatatacatccatccaaagaagttagtgtattacgcctctctaagcggcc 1777  
Sbjct: 98 accatataaaagatccacaccaggaaagtaggatattatgtatctctaagcggcc 46

>gb|EF468505.1| Zea mays clone pBK118-6 LL repeat sequence  
Length = 14830

Score = 63.9 bits (32), Expect = 3e-06  
Identities = 81/96 (84%), Gaps = 1/96 (1%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctcggtgtggcca 1355  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 12021 ttgtggggacagatatccccgggtccactagaaggtaagaaggcctacgaaaggcca 12080

Query: 1356 cgggccagttaccccgcaaggccatccctcggtgg 1391  
||||| ||||| ||||| |||||  
Sbjct: 12081 tggccattatTCGCAAGGCCACCCCTCGTGGG 12116

Score = 63.9 bits (32), Expect = 3e-06  
Identities = 61/68 (89%), Gaps = 2/68 (2%)  
Strand = Plus / Plus

Query: 1717 tgtaaccaccacatata-gatccatccaaagaagtgttacgcctctctaagcg 1774  
||||| ||||| | ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 12449 tgtaaccaccacataaaagatccacaccaagaagttaggtgttaacgcctctctaagcg 12508

Query: 1775 gcccaaac 1782  
|||||  
Sbjct: 12509 gcccaaac 12516

>gb|FJ386419.1| Zea mays clone R4-b StarkB element, partial sequence  
Length = 6783

Score = 61.9 bits (31), Expect = 1e-05  
Identities = 56/63 (88%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaaccaccacatata-gatccatccaaagaagtgttacgcctctctaagcgg 1775  
||||| ||||| | ||||| ||||| ||||| ||||| |||||  
Sbjct: 1676 tgtaaccaccacataaaagatccacaccaagaagttaggtgttaacgcctctctaagcgg 1735

Query: 1776 ccc 1778  
|||  
Sbjct: 1736 ccc 1738

Score = 58.0 bits (29), Expect = 2e-04  
Identities = 45/49 (91%), Gaps = 1/49 (2%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctc 1344  
||| |||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 1249 ttgttgggacagatataccccgggtccactagaaggcaagaaggcctc 1297

>gb|EF190048.1| Zea mays clone 46F3FF5Rm1 chromosome B, genomic sequence  
Length = 581

Score = 61.9 bits (31), Expect = 1e-05  
Identities = 56/63 (88%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaacccaccacatata-gatccatccaaagaagtgttattacgcctctaagcgg 1775  
          ||||||| ||||| | ||||| ||| ||| ||| ||| ||| |||  
Sbjct: 271 tgtaacccaccacataaaagatccataccaggaaagttagggtgttacggctctaagcgg 330

Query: 1776 ccc 1778  
          |||  
Sbjct: 331 ccc 333

>gb|AY574035.1| Zea mays rust resistance protein rp3-1 (rp3-1) gene, complete cds; and truncated rust resistance protein rp3-2t (rp3-2) gene, complete sequence  
Length = 276326

Score = 61.9 bits (31), Expect = 1e-05  
Identities = 47/51 (92%), Gaps = 1/51 (1%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatccc-cgggtccactagaaggcgagaaggcctcgcg 1347  
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 27029 tgtggggacagatataccctcggtccactagaaggctagaagacctcgcg 27079

Score = 52.0 bits (26), Expect = 0.012  
Identities = 63/74 (85%), Gaps = 1/74 (1%)  
Strand = Plus / Plus

Query: 1706 gagacacctgctttaaccaccat-atacatccaaagaagtagtgtattacgcc 1764  
||||| ||||| ||||||| ||||| | ||||| ||| ||||| | |||||  
Sbjct: 27440 gagaactccctttaaccaccataaaagatccacaccaggaagttaggggtacgct 27499

Query: 1765 tctctaaggcgcccc 1778  
||||||| |||||  
Sbjct: 27500 tctctaaggcgcccc 27513

Score = 44.1 bits (22), Expect = 3.0  
Identities = 37/42 (88%)  
Strand = Plus / Plus

Query: 1619 gccccacggtcgttatataaggccagagggtacccatca 1660  
||||||| ||||| ||||| | ||| ||| |||||  
Sbjct: 27347 gccccacggtcgagtatataaggcctaggggcacccatca 27388

>gb|AC185486.5| Zea mays BAC clone CH201-162J17 from chromosome 5, complete sequence  
Length = 151524

Score = 60.0 bits (30), Expect = 5e-05  
Identities = 30/30 (100%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatatccccgggtccacta 1327  
||||||| ||||| ||||| |||||  
Sbjct: 111690 tgtggggatagatatccccgggtccacta 111661

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatccccgggtccacta 1327  
||||||| ||||| |||||  
Sbjct: 98092 ttgtggggatagatatccccgggtccacta 98061

>gb|AC225631.3| Zea mays BAC clone CH201-111A2 from chromosome 8, complete sequence  
Length = 200661

Score = 60.0 bits (30), Expect = 5e-05  
Identities = 46/50 (92%), Gaps = 1/50 (2%)  
Strand = Plus / Plus

Query: 1299 gtggggatagatatccc-cgggtccactagaaggcgagaaggcctcgcg 1347  
||||||| ||||||||| ||||||||| ||||||||| ||||||||| |||||||||  
Sbjct: 177721 gtggggacagatatccctcggtccactagaaggctagaagacctcgcg 177770

Score = 54.0 bits (27), Expect = 0.003  
Identities = 55/63 (87%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaaccaccacatata-gatccatccaaagaagtagtgtattacgcctctctaagcgg 1775  
||||||| ||||| | ||||| | ||||| | ||||| | ||||| | ||||| |  
Sbjct: 178146 tgtaaccaccacataaaagatccacaccaggaagtagggtgttacacctctctaagcgg 178205

Query: 1776 ccc 1778  
|||  
Sbjct: 178206 ccc 178208

>gb|FJ386425.1| Zea mays clone R7-b StarkB element, partial sequence  
Length = 1314

Score = 58.0 bits (29), Expect = 2e-04  
Identities = 45/49 (91%), Gaps = 1/49 (2%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctc 1344  
||||||| ||||| ||||| ||| ||||| ||||| ||||| |||||  
Sbjct: 1248 ttgtggggacagatatccccggcccactagaaggcaagaaggcctc 1296

>gb|EF468506.1| Zea mays clone pBK118-7 LL repeat sequence and retrotransposon zeon1,  
complete sequence  
Length = 15596

Score = 58.0 bits (29), Expect = 2e-04  
Identities = 42/45 (93%), Gaps = 1/45 (2%)  
Strand = Plus / Plus

Query: 1301 gggggatagatatcccc-ggttccactagaaggcgagaaggcctc 1344  
||||||| ||||||||| ||||||||| |||||||||  
Sbjct: 7398 gggggacagatatccccgggttccactagaaggcaagaaggcctc 7442

Score = 50.1 bits (25), Expect = 0.048  
Identities = 53/61 (86%), Gaps = 1/61 (1%)  
Strand = Plus / Plus

Query: 1776 c 1776  
|  
Sbjct: 7882 c 7882

>gb|EF468500.1| Zea mays clone pBK118-1 LL repeat sequence and retrotransposon zeon1,  
complete sequence  
Length = 13824

Score = 58.0 bits (29), Expect = 2e-04  
Identities = 42/45 (93%), Gaps = 1/45 (2%)  
Strand = Plus / Plus

Score = 58.0 bits (29), Expect = 2e-04  
Identities = 54/61 (88%), Gaps = 1/61 (1%)  
Strand = Plus / Plus

Query: 1776 c 1776  
|  
Sbjct: 4957 c 4957

>gb|AC165174.2| Zea mays clone ZMBBb-127F19, complete sequence  
Length = 187659

Score = 58.0 bits (29), Expect = 2e-04  
Identities = 45/49 (91%), Gaps = 1/49 (2%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaaggcgagaaggcctc 1344

.....

Sbjct: 137705 ttgtggggacagatatccccgggtccactagaaggtagaaggcctc 137657

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Subject: 147600 ttgtggggatagatatccctgggtccacta 147569

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327

Shict: 160955 ttgtggggatagatatccctggtgtccacta 160924

Score = 46.1 bits (23), Expect = 0.75  
Identities = 32/35 (91%)  
Strand = Plus / Minus

Query: 1804 tctctcggtgcgtccagcacaaccattgagttaca 1838  
          ||||||| ||||| ||||| ||||| |||||  
Sbjct: 137188 tctctcggtgcgtccagcacaaccatcgagctaca 137154

Score = 46.1 bits (23), Expect = 0.75  
Identities = 38/43 (88%)  
Strand = Plus / Minus

>emb|AJ312460.1| Zea mays Grande retrotransposon DNA, partial LTR, clone Mo14  
Length = 433

Score = 58.0 bits (29), Expect = 2e-04  
Identities = 44/49 (89%)  
Strand = Plus / Plus

Query: 1705 ggagacacctcgcttgcataaccaccatatacatccatccaaagaatgg 1753  
          ||||||| ||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 375 ggagacacctcgcttgcataaccaccatatacatccatccaaagaatgg 423

>gb|EZ064107.1| TSA: Zea mays contig65230, mRNA sequence  
Length = 723

Score = 56.0 bits (28), Expect = 8e-04  
Identities = 46/52 (88%)  
Strand = Plus / Minus

Query: 1004 attttgatggtagttaaatgtgtgcattgtttatggatttagtaaa 1055  
          ||||| ||||| ||| ||| ||| ||| ||| |||  
Sbjct: 138 attttgatgttatgttaaatatgagtgcattgtttatggatttcgtaaa 87

>gb|FJ386416.1| Zea mays clone L7-a StarkB element, partial sequence  
Length = 909

Score = 54.0 bits (27), Expect = 0.003  
Identities = 58/67 (86%), Gaps = 1/67 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaacccaccacatata-gatccatccaaagaagtagtgttattacgcctctaaggcg 1775  
          ||||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Subject: 362 tgtaacccaccacataaaagatccacacaagaaggtagggttacgcctctaaggcag 421

Query: 1776 cccaaac 1782  
|||  
Sbjct: 422 cccaaac 428

>gb|FJ386414.1| Zea mays clone L6-a StarkB element, partial sequence  
Length = 890

Score = 54.0 bits (27), Expect = 0.003  
Identities = 58/67 (86%), Gaps = 1/67 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaacccaccatata-gatccatccaaagaagtgttattacgcctctaagcgg 1775  
          ||||||| ||||||| | ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 362 tgtaatccaccacataaaagatccacaccaggaaagttaggtgttacgcctctaagcgg 421

Query: 1776 cccaaac 1782  
          ||||||  
Sbjct: 422 tccaaac 428

>gb|EU965848.1| Zea mays clone 289347 hypothetical protein mRNA, complete cds  
Length = 1436

Score = 54.0 bits (27), Expect = 0.003  
Identities = 42/47 (89%)  
Strand = Plus / Plus

Query: 1085 ggtgggaaaaatcagatttaaacttagcgattatatagtggataga 1131  
          ||||||| | | ||||| | | ||||| | | ||||| | |  
Sbjct: 1358 ggtgggaaaaatcagatttaaacttagcgattatatagtggataga 1404

>gb|BT043326.1| Zea mays full-length cDNA clone ZM\_BFc0158M15 mRNA, complete cds  
Length = 1309

Score = 54.0 bits (27), Expect = 0.003  
Identities = 42/47 (89%)  
Strand = Plus / Plus

>gb|EF468511.1| Zea mays clone pBS-2 LL repeat sequence  
Length = 13423

Score = 54.0 bits (27), Expect = 0.003  
Identities = 55/63 (87%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1776 ccc 1778  
|||  
Sbjct: 5853 ccc 5855

Score = 46.1 bits (23), Expect = 0.75  
Identities = 29/31 (93%)  
Strand = Plus / Plus

Query: 1314 ccccggtccactagaaggcgagaaggcctc 1344  
          ||||| ||||| ||||| ||||| |||||  
Sbjct: 5441 ccccaggtccactagaaggcaagaaggcctc 5471

>gb|EU338354.1| Zea mays cultivar W22 bz gene locus, complete sequence  
Length = 238141

Score = 54.0 bits (27), Expect = 0.003  
Identities = 69/83 (83%)  
Strand = Plus / Plus

Query: 1040 tgatggatttagtaaaggttatg 1062  
|| ||||||| |||||  
Sbjct: 111267 tgggtggatttagtaaaggattatg 111289

>gb|EF190051.1| Zea mays clone 46F3FF5Rm5 chromosome B, genomic sequence  
Length = 582

Score = 54.0 bits (27), Expect = 0.003  
Identities = 58/67 (86%), Gaps = 1/67 (1%)  
Strand = Plus / Plus

Query: 1776 cccaaac 1782  
          |||||||  
Sbjct: 331 cccaaac 337

>gb|EF190049.1| Zea mays clone 46F3FF5Rm3 chromosome B, genomic sequence  
Length = 585

Score = 54.0 bits (27), Expect = 0.003  
Identities = 52/59 (88%), Gaps = 1/59 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaacccaccacata-tatccatccaaagaagttagtgtattacgcctcttaagcg 1774  
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 271 tgtaacccaccacataaaagatccataccaggaagttaggggttacggctcttaagcg 329

>gb|EF190044.1| Zea mays clone 46F3FF4R-4 chromosome B, genomic sequence  
Length = 458

Score = 54.0 bits (27), Expect = 0.003  
Identities = 55/63 (87%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaacccaccacatata-gatccatcccaagaagttagtgtattacgcctctaagcgg 1775  
          ||||||| | ||||| | ||| | ||| | ||| | ||| | ||| |  
Sbjct: 271 tgtaacccaccacataaaagatccacaccaggagaatgggtttactccctctaagcgg 330

Query: 1776 ccc 1778  
|||  
Sbjct: 331 ccc 333

>gb|AC196084.4| Zea mays BAC clone CH201-52A17 from chromosome 5, complete sequence  
Length = 187208

Score = 52.0 bits (26), Expect = 0.012  
Identities = 36/38 (94%), Gaps = 1/38 (2%)  
Strand = Plus / Minus

Score = 44.1 bits (22), Expect = 3.0  
Identities = 28/30 (93%)  
Strand = Plus / Plus

Query: 1033 atttgtttgatggattttagtaaaggttatg 1062  
          ||||| ||||| ||||| ||||| |||||  
Sbjct: 4582 atttgtttggatggattttagtagaggttatg 4611

>gb|AC194844.5| Zea mays BAC clone CH201-463C23 from chromosome 5, complete sequence  
Length = 153983

Score = 52.0 bits (26), Expect = 0.012  
Identities = 36/38 (94%), Gaps = 1/38 (2%)  
Strand = Plus / Plus

Score = 44.1 bits (22), Expect = 3.0  
Identities = 28/30 (93%)  
Strand = Plus / Minus

Query: 1033 attgtttgatggatttagtaaaggttatg 1062  
||| ||||| ||| ||||| ||| |||||  
Sbjct: 144300 attgtttggatggatttagtagaggttatg 144271

>gb|AC229876.2| Zea mays BAC clone CH201-115J9 from chromosome 8, complete sequence  
Length = 177725

Score = 52.0 bits (26), Expect = 0.012  
Identities = 26/26 (100%)  
Strand = Plus / Plus

Query: 1114 attatatagtggtatagaagatata 1139

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

Sbjct: 173236 attatatagtggtatagaagatata 173261

>gb|BT069726.1| Zea mays full-length cDNA clone ZM\_BFb0216P01 mRNA, complete cds  
Length = 1566

Score = 52.0 bits (26), Expect = 0.012  
Identities = 35/38 (92%)  
Strand = Plus / Plus

Query: 1028 gtgtcattttttgatggattttagtaaaaggttatgggt 1065

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

Sbjct: 1454 gtgttaattttttggatggattttagtaaaaggattatgggt 1491

>gb|EU952061.1| Zea mays clone 1145983 hypothetical protein mRNA, complete cds  
Length = 2110

Score = 52.0 bits (26), Expect = 0.012  
Identities = 29/30 (96%)  
Strand = Plus / Plus

Query: 1261 ctatatttaaaaatagggtactgattaaa 1290

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

Sbjct: 1548 ctatatttaagatagggtactgattaaa 1577

>gb|AC165267.2| Zea mays clone ZMMBb-151F20, complete sequence  
Length = 115478

Score = 52.0 bits (26), Expect = 0.012  
Identities = 44/50 (88%)  
Strand = Plus / Minus

Query: 1082 ttgggtgggtttacagagttaaactagcggtttatgtggataga 1131

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

Sbjct: 90446 ttgggtggatggatggatggatggataga 90397

>gb|EF190053.1| Zea mays clone 46F3FF5Rs2 chromosome B, genomic sequence  
Length = 452

Score = 50.1 bits (25), Expect = 0.048  
Identities = 25/25 (100%)  
Strand = Plus / Plus

Query: 1758 ttacgcctctctaagcggccaaac 1782  
||| ||| ||| ||| ||| ||| |||  
Sbjct: 184 ttacgcctctctaagcggccaaac 208

Score = 46.1 bits (23), Expect = 0.75  
Identities = 32/35 (91%)  
Strand = Plus / Plus

Query: 1804 tctctcggtcgccagcacgaccattgagttaca 1838  
          ||||||| ||| ||| ||| ||| ||| |||  
Sbjct: 229 tctctcggtcgatccagcagcacgaccatcgagctaca 263

>gb|EF190052.1| Zea mays clone 46F3FF5Rs1 chromosome B, genomic sequence  
Length = 452

Score = 50.1 bits (25), Expect = 0.048  
Identities = 25/25 (100%)  
Strand = Plus / Plus

Query: 1758 ttacgcctctctaagcggccaaac 1782  
||| | | | | | | | | | | | | | | | | | | |  
Sbjct: 184 ttacgcctctctaagcggccaaac 208

Score = 46.1 bits (23), Expect = 0.75  
Identities = 32/35 (91%)  
Strand = Plus / Plus

Query: 1804 tctctcggtgcgtccagcacgaaccattgagttaca 1838  
||| ||||| ||| ||||| ||| |||  
Sbjct: 229 tctctcggtgcgtccagcacgaaccatcgagctaca 263

>gb|EF190043.1| Zea mays clone 46F3FF4R-3 chromosome B, genomic sequence

Length = 461

Score = 50.1 bits (25), Expect = 0.048  
Identities = 62/73 (84%), Gaps = 1/73 (1%)  
Strand = Plus / Plus

Query: 1706 gagacacctcgctttaaccaccacat-atacatccatccaaagaagtagtgtattacgcc 1764  
||||| ||||| ||||| ||||| | ||||| ||| ||||| ||| |||||  
Sbjct: 260 gagaactccctttaaccaccacataaaagatccacaccaggaaagttaggtgctacgct 319

Query: 1765 tctctaagcggcc 1777  
||| | | | | | | | |  
Sbjct: 320 tctctaagcggcc 332

>gb|AC160211.1| Genomic sequence for Zea mays BAC clone ZMBBb0448F23, complete sequence  
Length = 132549

Score = 50.1 bits (25), Expect = 0.048  
Identities = 32/33 (96%), Gaps = 1/33 (3%)  
Strand = Plus / Minus

>gb|AY555142.1| Zea mays BAC clone c573F08, complete sequence  
Length = 181627

Score = 50.1 bits (25), Expect = 0.048  
Identities = 35/37 (94%), Gaps = 1/37 (2%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaagg 1332  
          ||||| ||||| ||||| ||||| ||||| |||||  
Sbjct: 4181 ttgtggggacagatatccccgggtccactagaagg 4145

Score = 50.1 bits (25), Expect = 0.048  
Identities = 35/37 (94%), Gaps = 1/37 (2%)  
Strand = Plus / Minus

Score = 44.1 bits (22), Expect = 3.0  
Identities = 34/38 (89%)  
Strand = Plus / Minus

Query: 1619 gccccacggtcgttatataaggccagagggtacccc 1656  
          ||||| ||||| | | | | | | | | | | | | | | | | | | |  
Sbjct: 3860 gccccacggtcgagtatataaggccatagagggcacccc 3823

>gb|AC207417.4| Zea mays BAC clone CH201-186N18 from chromosome 5, complete sequence  
Length = 180967

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
          ||||| | | | | | | | | | | | | | | | | | | | |  
Sbjct: 172679 ttgtggggatagatatccccgggtccacta 172648

>gb|AC206691.5| Zea mays BAC clone CH201-149B20 from chromosome 10, complete sequence  
Length = 174429

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
||| | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 37611 ttgtggggatagatatccctgggtccacta 37642

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327

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

Sbjct: 24104 tgtggggatagatatccctggtccacta 24134

>gb|AC211313.4| Zea mays BAC clone CH201-9J2 from chromosome 5, complete sequence  
Length = 202568

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
||||||||||||||||| |||||||||

Sbjct: 140807 ttgtggggatagatatccctggtccacta 140776

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
||||||||||||||||| |||||||||

Sbjct: 154049 tgtggggatagatatccctggtccacta 154019

>gb|AC203072.5| Zea mays BAC clone CH201-26J18 from chromosome 6, complete sequence  
Length = 184681

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatat-ccccgggtccacta 1327  
||||||||||||| |||||||||

Sbjct: 41260 ttgtggggatagatatccccgggtccacta 41291

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatat-ccccgggtccacta 1327  
||||||||||||| |||||||||

Sbjct: 94022 ttgtggggatagatatccccgggtccacta 93991

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
||| | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 115417 tgtggggatagatatccccctgggtccacta 115387

>gb|AC230040.3| Zea mays BAC clone CH201-122P19 from chromosome 7, complete sequence  
Length = 173182

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
          ||||| ||||| | | | | | | | | | | | | | | | | |  
Sbjct: 31129 ttgtggggatagatatccccctgggtccacta 31160

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
          ||||| | | | | | | | | | | | | | | | | | | | |  
Sbjct: 85079 ttgtggggatagatatccccctgggtccacta 85048

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Minus

>gb|AC203533.4| Zea mays BAC clone CH201-452L5 from chromosome 5, complete sequence  
Length = 196401

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
          ||||| | | | | | | | | | | | | | | | | | | | |  
Sbjct: 177802 ttgtggggatagatatccccgggtccacta 177833

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
          ||||| | | | | | | | | | | | | | | | | | | |  
Sbjct: 164160 tgtggggatagatatccccctgggtccacta 164190

>gb|AC210997.6| Zea mays BAC clone CH201-545A13 from chromosome 5, complete sequence  
Length = 157790

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
          ||||| | | | | | | | | | | | | | | | | | | | |  
Sbjct: 143832 ttgtggggatagatatcccctgggtccacta 143801

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
          ||||| | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 23516 tgtggggatagatatccctgggtccacta 23486

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
          ||||| | | | | | | | | | | | | | | | | | | |  
Sbjct: 157474 tgtggggatagatatccccctgggtccacta 157444

>gb|AC209754.5| Zea mays BAC clone CH201-23E16 from chromosome 5, complete sequence  
Length = 188133

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatccccgggtccacta 1327  
||||||| ||||| ||||| |||||  
Sbjct: 3262 ttgtggggatagatatccccgggtccacta 3293

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
||||||| ||||| ||||| |||||  
Sbjct: 99526 ttgtggggatagatatcccctgggtccacta 99495

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
||||||| ||||| |||||  
Sbjct: 109596 tgtggggatagatatcccctgggtccacta 109566

>emb|AM489152.2| Vitis vinifera contig VV78X015348.8, whole genome shotgun sequence  
Length = 1652

Score = 48.1 bits (24), Expect = 0.19  
Identities = 27/28 (96%)  
Strand = Plus / Plus

Query: 1264 tattttaaaatagggtactgatttaaaa 1291  
||||||| ||||| |||||  
Sbjct: 1545 tattttaaaatagggtattgatttaaaa 1572

>gb|DQ493649.1| Zea mays cultivar Coroico bz locus region  
Length = 159340

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
||| ||| ||| ||| ||| ||| |||  
Sbjct: 80049 ttgtggggatagatatcccctgggtccacta 80080

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
||| ||| ||| ||| ||| ||| |||  
Sbjct: 102517 ttgtggggatagatatcccctgggtccacta 102548

>gb|AC152494.1| Zea mays BAC clone Z418K17, complete sequence  
Length = 195448

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
||| ||| ||| ||| ||| ||| |||  
Sbjct: 121910 ttgtggggatagatatcccctgggtccacta 121941

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
||| ||| ||| ||| ||| ||| |||  
Sbjct: 110963 tgtggggatagatatcccctgggtccacta 110993

>gb|DQ002407.1| Zea mays copia retrotransposon opiel, gypsy retrotransposon grande1,  
xilon1 retrotransposon, helitron B73\_14578, gypsy  
retrotransposon huck1 and ruda retrotransposon, complete  
sequence  
Length = 152384

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)

Strand = Plus / Minus

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatatcc-ccgggtccacta 1327  
||| | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 90582 tgtggggatagatatcctccgggtccacta 90552

>gb|AC124722.3| Mus musculus BAC clone RP23-389E7 from chromosome 6, complete sequence  
Length = 193830

Score = 48.1 bits (24), Expect = 0.19  
Identities = 27/28 (96%)  
Strand = Plus / Plus

Query: 415 acattaccatgtccaaactgattaaaac 442  
||| | | | | | | | | | | | | | | | | | | |  
Sbjct: 183367 acattaccatgtccaaactgacttaaaac 183394

>gb|AC159713.6| Mus musculus 6 BAC RP24-317F6 (Roswell Park Cancer Institute (C57BL/6J  
Male) Mouse BAC Library) complete sequence  
Length = 200130

Score = 48.1 bits (24), Expect = 0.19  
Identities = 27/28 (96%)  
Strand = Plus / Minus

Query: 415 acattaccatgtccaaactgattaaaac 442  
          ||||||||||||||||||| |||||  
Sbjct: 147812 acattaccatgtccaaactgacttaaaac 147785

>gb|AC090648.5| Genomic sequence for *Mus musculus*, clone RP23-331I23, complete sequence  
Length = 198695

Score = 48.1 bits (24), Expect = 0.19

Identities = 27/28 (96%)

Strand = Plus / Minus

Query: 415 acattaccatgtccaaactgatttaaac 442

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

Sbjct: 11423 acattaccatgtccaaactgacttaaac 11396

>emb|AL772329.14| Zebrafish DNA sequence from clone CH211-150D5 in linkage group 3,  
complete sequence

Length = 163559

Score = 48.1 bits (24), Expect = 0.19

Identities = 24/24 (100%)

Strand = Plus / Plus

Query: 8 tttaatatactttaataaatatta 31

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

Sbjct: 60907 tttaatatactttaataaatatta 60930

>gb|AF546188.1| Contiguous genomic DNA sequence comprising the 19-kDa-zein gene family  
from Zea mays, complete sequence

Length = 203363

Score = 48.1 bits (24), Expect = 0.19

Identities = 34/36 (94%), Gaps = 1/36 (2%)

Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccactagaag 1331

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

Sbjct: 15523 ttgtggggacagatatccccgggtccactagaag 15488

Score = 48.1 bits (24), Expect = 0.19

Identities = 34/36 (94%), Gaps = 1/36 (2%)

Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccactagaagg 1332

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

Sbjct: 53541 tgtggggacagatatccccgggtccactagaagg 53576

Score = 46.1 bits (23), Expect = 0.75  
Identities = 33/35 (94%), Gaps = 1/35 (2%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatatcccc-gggtccactagaag 1331  
          ||||||| ||||||| | | | | | | | | | | | | | | | |  
Sbjct: 29356 tgtggggacagatatccccgggtccactagaag 29322

>gb|AF466932.1| Zea mays clone BAC 206C17, complete sequence  
Length = 99156

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Plus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
          ||||| | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 96175 ttgtggggatagatatccccctgggtccacta 96206

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
          ||||| ||||| ||||| |||||  
Sbjct: 85229 tgtggggatagatatccctgggtccacta 85259

>emb|X68678.1| Z. mays gene for cyclophilin  
Length = 2598

Score = 48.1 bits (24), Expect = 0.19  
Identities = 42/48 (87%)  
Strand = Plus / Plus

Query: 1005 ttttgatggtatgttaatttgtgtcattgatggatttagt 1052  
          ||||||| | ||||| |||    ||||| ||||||| |||||  
Sbjct: 558 ttttgatgtctgttaagtttaggtgtaaattgtttatggatttagt 605

>gb|AY664415.1| Zea mays cultivar B73 locus 9009, complete sequence

Length = 323584

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatatcccc-gggtccacta 1327  
          ||||| | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 97420 ttgtggggatagatatccccgtggtccacta 97389

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Minus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
          ||||| ||||| ||||| | | | | | | | |  
Sbjct: 111237 tgtggggatagatatccccctgggtccacta 111207

>emb|X82087.1| Z. diploperennis Grandel gene  
Length = 8449

Score = 48.1 bits (24), Expect = 0.19  
Identities = 31/32 (96%), Gaps = 1/32 (3%)  
Strand = Plus / Minus

Query: 1297 ttgtggggatagatat-cccccgggtccacta 1327  
||| | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 992 ttgtggggatagatatccccccgggtccacta 961

>gb|AC203284.4| Zea mays BAC clone CH201-504M1 from chromosome 5, complete sequence  
Length = 179214

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
||| | | | | | | | | | | | | | | | | | | |  
Sbjct: 94141 tgtggggatagatatccccgggtccacta 94171

>gb|FJ386410.1| Zea mays clone L4-a StarkB element, partial sequence  
Length = 890

Score = 46.1 bits (23), Expect = 0.75  
Identities = 57/67 (85%), Gaps = 1/67 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaaccaccacatata-gatccatccaagaagttagtattacgcctctctaagcgg 1775  
|||||| | ||||| | | |||| | || | |||| | || | ||||| | ||| | ||||| |  
Sbjct: 362 tgtaatccaccacataaaagatccacaccaggaaagttaggtttacgtctctctaagcgg 421

Query: 1776 cccaaac 1782  
|||||  
Sbjct: 422 tccaaac 428

>gb|AC226723.4| Zea mays BAC clone CH201-110I20 from chromosome 6, complete sequence  
Length = 190394

Score = 46.1 bits (23), Expect = 0.75  
Identities = 42/47 (89%), Gaps = 1/47 (2%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccactagaaggcgagaaggcct 1343  
||||||| | | ||||| | ||| | ||||| | ||| | ||||| | |  
Sbjct: 151044 tgtggggacatatatccccgggtccactagaaggctaaaaggcct 151090

>gb|AC231746.2| Zea mays BAC clone CH201-98H14 from chromosome 6, complete sequence  
Length = 189380

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327  
||||||| | | ||||| | | |  
Sbjct: 184382 tgtggggatagatatcccgggtccacta 184412

>gb|CP001078.1| Clostridium botulinum E3 str. Alaska E43, complete genome  
Length = 3659644

Score = 46.1 bits (23), Expect = 0.75  
Identities = 23/23 (100%)

Strand = Plus / Plus

Query: 1206 tttgataaaaaaggtaaagtaga 1228  
||||||| ||||| ||||| |||||  
Sbjct: 1648880 tttgataaaaaaggtaaagtaga 1648902

>gb|AC205914.3| Pongo abelii BAC clone CH276-7K14 from chromosome unknown, complete sequence  
Length = 203364

Score = 46.1 bits (23), Expect = 0.75  
Identities = 23/23 (100%)  
Strand = Plus / Plus

Query: 650 ctttcatatatcttccatcctt 672  
||||||| ||||| ||||| |||||  
Sbjct: 175329 ctttcatatatcttccatcctt 175351

>dbj|AP009179.1| Sulfurovum sp. NBC37-1 genomic DNA, complete genome  
Length = 2562277

Score = 46.1 bits (23), Expect = 0.75  
Identities = 26/27 (96%)  
Strand = Plus / Minus

Query: 437 taaaacacaaactcttcttgaaccata 463  
||||| | ||||| ||||| |||||  
Sbjct: 839439 taaaaaacaaactcttcttgaaccata 839413

>gb|EF190046.1| Zea mays clone 46F3FF4R-H2 chromosome B, genomic sequence  
Length = 578

Score = 46.1 bits (23), Expect = 0.75  
Identities = 54/63 (85%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaaccaccacatata-gatccatccaaagaagtagttagtattacgcctcttaagcgg 1775  
||||||| ||||| | | ||||| || | ||||| || | |||||  
Sbjct: 270 tgtaaccaccacataaaagatctacaccaggaagtagggtgttatgcctcttaagcgg 329

Query: 1776 ccc 1778

Sbjct: 330 ccc 332

>gb|EF190045.1| Zea mays clone 46F3FF4R-H1 chromosome B, genomic sequence  
Length = 577

Score = 46.1 bits (23), Expect = 0.75  
Identities = 54/63 (85%), Gaps = 1/63 (1%)  
Strand = Plus / Plus

Query: 1717 tgtaacccaccacatata-gatccatccaaagaagttagtgttattacgcctctctaagcgg 1775  
          ||||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 270 tgtaacccaccacataaaagatctacaccaggaaagttagggtgttatgcctctctaagcgg 329

Query: 1776 ccc 1778  
|||  
Sbjct: 330 ccc 332

>gb|AC187724.2| Pan troglodytes BAC clone CH251-318015 from chromosome 7, complete sequence  
Length = 188968

Score = 46.1 bits (23), Expect = 0.75  
Identities = 23/23 (100%)  
Strand = Plus / Minus

>gb|AC183623.3| Pan troglodytes BAC clone CH251-49H23 from chromosome 5, complete sequence  
Length = 184771

Score = 46.1 bits (23), Expect = 0.75  
Identities = 23/23 (100%)  
Strand = Plus / Plus

Query: 373 aatcatgtgccacataatcacgt 395  
||| ||| ||| ||| ||| |||  
Sbjct: 82076 aatcatgtgccacataatcacgt 82098

>gb|AC165172.2| Zea mays clone CH201-171E16, complete sequence  
Length = 180971

Score = 46.1 bits (23), Expect = 0.75  
Identities = 41/47 (87%)  
Strand = Plus / Plus

Query: 1085 ggtgggtttacagagttaaactagcggattatatagtggtataga 1131  
||||| ||||| || ||||||||| || ||||| ||||| |||||  
Sbjct: 88108 ggtgtgtttcaaagttaaactagtagattatagtagtataga 88154

>gb|AC134822.19| Medicago truncatula clone mth2-15j20, complete sequence  
Length = 106152

Score = 46.1 bits (23), Expect = 0.75  
Identities = 23/23 (100%)  
Strand = Plus / Plus

Query: 513 attaaaaattacttgaagattc 535  
||||||| ||||| |||||  
Sbjct: 63022 attaaaaattacttgaagattc 63044

>gb|AC147708.7| Canis Familiaris, clone XX-25G10, complete sequence  
Length = 185084

Score = 46.1 bits (23), Expect = 0.75  
Identities = 23/23 (100%)  
Strand = Plus / Plus

Query: 7 attaatatatacttataataat 29  
||||||| |||||  
Sbjct: 177697 attaatatatacttataataat 177719

>gb|AF466202.2| Zea mays putative pol protein gene, partial cds; and putative gag-pol precursor -orf2, putative Fourf gag/pol protein, putative NADP-dependent malic enzyme, putative argonaute protein, putative pinhead protein, putative pol protein, putative gag protein, putative TNP2, r1-B73 proteins, putative genetic modifier, putative S-receptor kinase, putative aldose reductase-related protein, putative glutathione peroxidase, putative glycerol 3-phosphate permease, putative response regulator, and putative 4-coumarate-CoA

ligase-like protein genes, complete cds  
Length = 290350

Score = 46.1 bits (23), Expect = 0.75  
Identities = 44/51 (86%)  
Strand = Plus / Minus

Query: 1081 gttgggtggtttacagatcaaacttagcgattatatgtgtataga 1131  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 90789 gttgagttagtttgcaagttaaacttagtgaattatataatgttataga 90739

>gb|AF466203.1| Zea mays clone ZMBBb\_0092E12, partial sequence  
Length = 147198

Score = 46.1 bits (23), Expect = 0.75  
Identities = 35/39 (89%)  
Strand = Plus / Plus

Query: 1618 tgccccacggtcgttatataaggtaatccagagggtacccc 1656  
          ||||||| ||||| ||||| | ||||| |||||  
Sbjct: 21097 tgccccacggtcgagtatataaggcctagagggcacccc 21135

>emb|AJ312444.1| Zea mays Grande retrotransposon DNA, partial LTR, clone B13  
Length = 436

Score = 46.1 bits (23), Expect = 0.75  
Identities = 35/39 (89%)  
Strand = Plus / Plus

Query: 1618 tgccccacggtcgttatataaggccatagggcacc 1656  
          ||||||| |||| | | | | | | | | | | | | | |  
Sbjct: 291 tgccccacggtcgacttatataaggccatagggcacc 329

>gb|AF050437.1| Zea mays retrotransposon Grande-Zm1 3' LTR, partial sequence  
Length = 623

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Sbjct: 1 tgtggggatagatatcccctgggtccacta 31

>gb|U68403.1|ZMU68403 Zea mays retrotransposon Grande-Zm 5' LTR and and primer binding site  
DNA sequence  
Length = 645

Score = 46.1 bits (23), Expect = 0.75  
Identities = 30/31 (96%), Gaps = 1/31 (3%)  
Strand = Plus / Plus

Query: 1298 tgtggggatagatatcccc-gggtccacta 1327

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

Sbjct: 1 tgtggggatagatatcccctgggtccacta 31

>gb|AE000666.1| Methanothermobacter thermautotrophicus str. Delta H, complete genome  
Length = 1751377

Score = 46.1 bits (23), Expect = 0.75  
Identities = 23/23 (100%)  
Strand = Plus / Minus

Query: 685 taaatggcttcatgttgaagac 707

Sbjct: 214894 taaatggcttcatgtttgaagac 214872

>gb|AC204225.4| Zea mays BAC clone CH201-427P14 from chromosome 5, complete sequence  
Length = 203705

Score = 44.1 bits (22), Expect = 3.0  
Identities = 35/38 (92%), Gaps = 1/38 (2%)  
Strand = Plus / Plus

Query: 1296 gttgtggggatagatatcccc-gggtccactagaagg 1332

Figure 1. A schematic diagram of the experimental setup for the measurement of the absorption coefficient.

Sbjct: 53615 gttgtggggacagatatccctgggtccacgagaagg 53652

>gb|AC190571.5| Zea mays BAC clone CH201-151G9 from chromosome 5, complete sequence  
Length = 190522

Score = 44.1 bits (22), Expect = 3.0  
Identities = 28/30 (93%)  
Strand = Plus / Plus

```
Query: 1033 attgtttgatggatttagtaaaggttatg 1062
          ||||||| | | | | | | | | | | |
Sbjct: 182189 attgtttggatggatttagtagaggttatg 182218
```

>emb|CU207403.3| Pig DNA sequence from clone CH242-522I21 on chromosome X, complete sequence  
Length = 196911

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 8 ttaatatacttataataat 29  
| | | | | | | | | | | | | | | | | |  
Sbjct: 110942 ttaatatacttataataat 110921

>gb|EZ077797.1| TSA: Zea mays contig13436, mRNA sequence  
Length = 117

Score = 44.1 bits (22), Expect = 3.0  
Identities = 43/50 (86%)  
Strand = Plus / Minus

Query: 1082 ttgggtgggaaaaactacagagttaactatgcggattatataatgtggataga 1131  
          ||||| ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 66   ttgggtgggaaaaactgtaaagtttaactatgaaattatataatgtggataga 17

>ref|XM\_001909862.1| Podospora anserina DSM 980 hypothetical protein (PODANSg6934) partial mRNA  
Length = 1656

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 845 gatgcgagtgaggaggaggg 866  
||| | | | | | | | | | | | | | | | | | | |  
Sbjct: 1633 gatgcgagtgaggaggaggg 1654

>emb|CU638744.1| Podospora anserina genomic DNA chromosome 6, supercontig 2

Length = 2996286

Score = 44.1 bits (22), Expect = 3.0

Identities = 22/22 (100%)

Strand = Plus / Minus

Query: 845 gatgcgagtgaggaggagagg 866

Sbjct: 150414 gatgcgagtgaggagggaggg 150393

>gb|EF396164.1| Zea mays nitrilase 2 (NIT2) gene, complete cds

Length = 7505

Score = 44.1 bits (22), Expect = 3.0

Identities = 31/34 (91%)

Strand = Plus / Minus

Query: 1092 tttacagagttaactagcggattatatagtgg 1125

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

Subject: 576 tttacaaaagttaaactggattatatagtgg 543

>gb|EF190047.1| Zea mays clone 46F3FF4R-H3 chromosome B, genomic sequence

Length = 477

Score = 44.1 bits (22), Expect = 3.0

Identities = 53/62 (85%), Gaps = 1/62 (1%)

Strand = Plus / Plus

Query: 1717 tgtaacccaccacat-atagatccatccaaagaagttagtgtattacgcctctctaaggcgg 1775

Sbjct: 270 tgtaaccacccataaaagatccacaccaggaaagttagggtgctacgctctctaagcgg 329

Query: 1776 cc 1777

1

Sbjct: 330 cc 331

>gb|EF190042.1| Zea mays clone 46F3FF4R-2 chromosome B, genomic sequence

Length = 461

Score = 44.1 bits (22), Expect = 3.0

Identities = 53/62 (85%), Gaps = 1/62 (1%)

Strand = Plus / Plus

Query: 1717 tgtaaccaccacat-atagatccatccaaagaagttagtgttacgcctctctaagcgg 1775  
||| ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 271 tgtaaccaccacataaaagatccacaccaggaagtagggtgctacgctctctaagcgg 330

Query: 1776 cc 1777  
||  
Sbjct: 331 cc 332

>gb|AC182574.2| *Mimulus guttatus* clone MGBa-83E5, complete sequence  
Length = 139993

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 12 atataacttaataaaatattatt 33  
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 31941 atataacttaataaaatattatt 31920

>gb|AC188446.2| *Gallus gallus* BAC clone CH261-122M13 from chromosome z, complete sequence  
Length = 193200

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaaggggagggaaggggagga 804  
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 161989 ggaaggggagggaaggggagga 162010

>gb|CP000393.1| *Trichodesmium erythraeum* IMS101, complete genome  
Length = 7750108

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 1683 ctcatcagtttctccattca 1704  
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 5139177 ctcatcagtttctccattca 5139156

>gb|AC115727.10| Mus musculus chromosome 3, clone RP23-30A13, complete sequence  
Length = 183826

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 125838 ggaaggggagggaaggggagga 125817

>gb|AC110735.6| Mus musculus chromosome 1, clone RP24-123P22, complete sequence  
Length = 187303

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 1036 tgtttcatggattttagtaaagg 1057  
|||||||  
Sbjct: 12801 tgtttcatggattttagtaaagg 12780

>gb|AC107851.17| Mus musculus chromosome 9, clone RP23-451B4, complete sequence  
Length = 190253

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 94906 ggaaggggagggaaggggagga 94885

>gb|AC112971.8| Mus musculus chromosome 1, clone RP24-444M12, complete sequence  
Length = 161310

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 1036 tgtttcatggatggatgtaaagg 1057  
|||||||  
Sbjct: 157955 tgtttcatggatggatgtaaagg 157934

>gb|AC137002.2| Oryza sativa (japonica cultivar-group) chromosome 5 BAC clone  
OSJNBb0061M13, complete sequence  
Length = 174910

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaaggggagga 804  
|||||||  
Sbjct: 110516 ggaaggggagggaaaggggagga 110495

>gb|AC137128.17| Mus musculus chromosome 3, clone RP24-271G16, complete sequence  
Length = 182140

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaaggggagggaaaggggagga 804  
|||||||  
Sbjct: 59258 ggaaggggagggaaaggggagga 59279

>gb|AF394561.1| Oryza sativa alpha-expansin OsEXPA26 (EXPA26) gene, complete cds  
Length = 6312

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 458 accatatatgtttgacaaaccaa 479  
|||||||  
Sbjct: 4935 accatatatgtttgacaaaccaa 4956

>gb|AC121523.6| Mus musculus chromosome 18, clone RP24-92N23, complete sequence  
Length = 202346

Score = 44.1 bits (22), Expect = 3.0

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

Query: 783 ggaagggagggaaggggagga 804  
|||||||  
Sbjct: 76087 ggaagggagggaaggggagga 76108

>gb|AC161177.4| Mus musculus chromosome 18, clone RP24-131H12, complete sequence  
Length = 189231

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaagggagggaaggggagga 804  
|||||||  
Sbjct: 129914 ggaagggagggaaggggagga 129935

>gb|AC074327.6| Homo sapiens chromosome 10 clone RP11-556E13, complete sequence  
Length = 189250

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 782 tggaagggagggaagggagg 803  
|||||||  
Sbjct: 138782 tggaagggagggaagggagg 138803

>tpg|BK000854.1| TPA: TPA\_inf: Oryza sativa transposon Rim2-M255, complete sequence  
Length = 4415

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaagggagggaaggggagga 804  
|||||||  
Sbjct: 713 ggaagggagggaaggggagga 734

>gb|AC113420.2| Homo sapiens chromosome 5 clone RP11-586E1, complete sequence

Length = 176267

Score = 44.1 bits (22), Expect = 3.0

Identities = 22/22 (100%)

Strand = Plus / Plus

Query: 209 aaatttctaaaggcagtatata 230

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

Sbjct: 89249 aaatttctaaaggcagtatata 89270

>emb|AL513013.12| Human DNA sequence from clone RP5-990P15 on chromosome 1 Contains the  
5' end of a novel gene, a novel gene (DKFZp564J047), two  
novel genes and a CpG island, complete sequence

Length = 77001

Score = 44.1 bits (22), Expect = 3.0

Identities = 25/26 (96%)

Strand = Plus / Plus

Query: 560 cacatctaaccagaaggcataaggct 585

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

Sbjct: 18114 cacatctaaccagcaggcataaggct 18139

>emb|AL606923.8| Human DNA sequence from clone RP11-361F19 on chromosome 6 Contains a C2H2  
zinc finger protein pseudogene, complete sequence

Length = 154285

Score = 44.1 bits (22), Expect = 3.0

Identities = 22/22 (100%)

Strand = Plus / Plus

Query: 783 ggaaggggagggaaaggggagga 804

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

Sbjct: 132096 ggaaggggagggaaaggggagga 132117

>emb|AL357873.17| Human DNA sequence from clone RP11-344F13 on chromosome 1 Contains a  
novel gene, complete sequence

Length = 143508

Score = 44.1 bits (22), Expect = 3.0

Identities = 22/22 (100%)

Strand = Plus / Minus

Query: 1067 tagaggtgattttgttgggtg 1088  
||||||| ||||| ||||| |||||  
Sbjct: 113435 tagaggtgattttgttgggtg 113414

>gb|AC093256.2| Homo sapiens chromosome 5 clone RP11-182I24, complete sequence  
Length = 163807

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 209 aaatttctaaaggcagtatata 230  
||||||| ||||| ||||| |||||  
Sbjct: 17971 aaatttctaaaggcagtatata 17992

>emb|AL592043.7| Human DNA sequence from clone RP11-281B1 on chromosome Xp21.3-22.12  
Contains part of a novel gene, an arginine-serine-rich  
splicing factor 2 (SFRS2) pseudogene and a CpG island,  
complete sequence  
Length = 184391

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaaggggagggaaggggaggga 804  
||||||| ||||| |||||  
Sbjct: 139346 ggaaggggagggaaggggaggga 139367

>emb|AL583825.8| Human DNA sequence from clone RP11-362H12 on chromosome 1 Contains a  
mitochondrial intermediate peptidase (MIPEP) pseudogene  
and a CpG island, complete sequence  
Length = 198794

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaaggggagggaaggggaggga 804  
||||||| |||||  
Sbjct: 86906 ggaaggggagggaaggggaggga 86927

>gb|AC155725.3| Mus musculus 6 BAC RP24-231N5 (Roswell Park Cancer Institute (C57BL/6J Male) Mouse BAC Library) complete sequence  
Length = 167534

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 115727 ggaaggggagggaaggggagga 115748

>emb|AL645990.14| Mouse DNA sequence from clone RP23-403C12 on chromosome 11 Contains a novel gene and the 5' end of the Mmd gene for monocyte to macrophage differentiation-associated, complete sequence  
Length = 134303

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 93065 ggaaggggagggaaggggagga 93044

>dbj|AP004222.3| Oryza sativa Japonica Group genomic DNA, chromosome 1, BAC clone:B1003B09  
Length = 155263

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 95586 ggaaggggagggaaggggagga 95607

>gb|AC097720.5| Homo sapiens BAC clone RP11-1422N15 from 2, complete sequence  
Length = 137856

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)

Strand = Plus / Minus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 135529 ggaaggggagggaaggggagga 135508

>dbj|AP003563.3| Oryza sativa Japonica Group genomic DNA, chromosome 1, BAC  
clone:B1168H06  
Length = 185600

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 71045 ggaaggggagggaaggggagga 71066

>emb|AJ312483.1| Zea mays Grande retrotransposon DNA, partial LTR, clone W17  
Length = 442

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 1370 cgcaaggccatcccttcgtggg 1391  
|||||||  
Sbjct: 43 cgcaaggccatcccttcgtggg 64

>emb|AJ312451.1| Zea mays Grande retrotransposon DNA, partial LTR, clone B20  
Length = 446

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 1370 cgcaaggccatcccttcgtggg 1391  
|||||||  
Sbjct: 43 cgcaaggccatcccttcgtggg 64

>emb|CT025562.10| Mouse DNA sequence from clone RP24-225012 on chromosome 14, complete

sequence  
Length = 194430

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaaggggagggaaaggggagga 804  
|||||||  
Sbjct: 40460 ggaaggggagggaaaggggagga 40481

>gb|AC155715.24| Mus musculus 10 BAC RP24-118H2 (Roswell Park Cancer Institute (C57BL/6J  
Male) Mouse BAC Library) complete sequence  
Length = 174860

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaaggggagga 804  
|||||||  
Sbjct: 19328 ggaaggggagggaaaggggagga 19307

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaaggggagga 804  
|||||||  
Sbjct: 19610 ggaaggggagggaaaggggagga 19589

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaaggggagga 804  
|||||||  
Sbjct: 19707 ggaaggggagggaaaggggagga 19686

>gb|AC153847.7| Mus musculus 10 BAC RP23-286J11 (Roswell Park Cancer Institute (C57BL/6J Female) Mouse BAC Library) complete sequence  
Length = 187753

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 163458 ggaaggggagggaaggggagga 163437

>gb|AC132599.3| Mus musculus BAC clone RP24-131015 from 3, complete sequence  
Length = 153352

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 28043 ggaaggggagggaaggggagga 28022

>gb|AC131696.4| Mus musculus BAC clone RP23-403E5 from 1, complete sequence  
Length = 214068

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 783 ggaaggggagggaaggggagga 804  
|||||||  
Sbjct: 27805 ggaaggggagggaaggggagga 27784

>gb|AC110817.6| Mus musculus BAC clone RP23-155B20 from 13, complete sequence  
Length = 200362

Score = 44.1 bits (22), Expect = 3.0  
Identities = 25/26 (96%)  
Strand = Plus / Plus

Query: 1265 attttaaaatagggtactgatttaaa 1290

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

Sbjct: 24592 attttaaaataggtagcagattaaa 24617

>emb|AL935152.9| Mouse DNA sequence from clone RP24-387M5 on chromosome 2, complete sequence  
Length = 98020

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 1689 agctttctccattcaggagac 1710

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

Sbjct: 62338 agctttctccattcaggagac 62359

>emb|AL731742.3| Oryza sativa chromosome 12, . BAC OJ1123\_B09 of library Monsanto from chromosome 12 of cultivar Nipponbare of ssp. japonica of Oryza sativa (rice), complete sequence  
Length = 155585

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Minus

Query: 458 accatatacgatggacaaaccaa 479

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

Sbjct: 128797 accatatacgatggacaaaccaa 128776

>dbj|AP001359.4| Homo sapiens genomic DNA, chromosome 11q clone:RP11-820L6, complete sequences  
Length = 221535

Score = 44.1 bits (22), Expect = 3.0  
Identities = 22/22 (100%)  
Strand = Plus / Plus

Query: 783 ggaaggggagggaaggggagga 804

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

Sbjct: 179801 ggaaggggagggaaggggagga 179822

>dbj|AP000755.4| Homo sapiens genomic DNA, chromosome 11q clone:RP11-716H6, complete sequences

Length = 152306

Score = 44.1 bits (22), Expect = 3.0

Identities = 22/22 (100%)

Strand = Plus / Plus

Query: 783 ggaaggggagggaaagggggagga 804  
| | | | | | | | | | | | | | | | | | | | | |  
Sbjct: 9513 ggaaggggagggaaagggggagga 9534

Database: /usr/local/blast/db/blastlibs/nt

Posted date: Apr 19, 2010 12:09 PM

Number of letters in database: 30,878,341,354

Number of sequences in database: 11,350,961

Lambda	K	H
1.37	0.711	1.31

## Gapped

Lambda	K	H
1.37	0.711	1

Matrix: blastn matrix:1 -3

Gap Penalties: Existence: 5, Extension: 2

Number of Sequences: 11350961

Number of Hits to DB: 610,081,806

Number of extensions: 34314732

Number of successful extensions: 731393

Number of sequences better than 10.0: 153

Number of HSP's gapped: 731334

Number of HSP's successfully gapped: 234

Length of query: 1852

Length of query: 1000

Length adjustment: 23

Effective length of query: 1829

Effective length of database: 30 617 269 251

Effective search space: 55998985460079

Effective search space used: 55998985460079

EFFECTIVE SEARCH S  
Y1: 11 (21.8 bits)

X1: 11 (21.8 bits)

X2: E0 (00\_1 bits)

S1: 14 (28.2 bits)

S1: 14 (28.2 bits)