

BLASTn Search Outputs of the DNA Sequences at the Parental Locus of Maize Event DAS-40278-9 against GenBank N0-human and No-mouse ESTs (est_others)

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= DAS-40278-9\Original\Locus
(2212 letters)

Database: /usr/local/blast/db/blastlibs/est_others
52,386,385 sequences; 29,661,423,624 total letters

Searching..... done

Sequences producing significant alignments:				Score	E
				(bits)	Value
gb FL476102.1	2002854 CERES-227 Zea mays cDNA clone 400160 3', ...	167	3e-37		
gb CF273097.1	EST2659 Zea mays sperm cell cDNA library Zea mays...	123	4e-24		
gb FL432925.1	25247980 CERES-CB5 Zea mays cDNA clone 1220987 3'...	121	2e-23		
gb DW974630.1	MSAM293083_3262_0305 LCM-dissected maize shoot ap...	121	2e-23		
gb FL470578.1	25237854 CERES-CB5 Zea mays cDNA clone 1155571 3'...	119	7e-23		
gb FL307895.1	2966196 CERES-227 Zea mays cDNA clone 507820 5', ...	109	7e-20		
gb EG290874.1	MSAM213298_2794_1558 LCM-dissected maize inbred l...	100	6e-17		
gb EG104957.1	MSAM177786_0974_2612 LCM-dissected maize inbred l...	100	6e-17		
gb EG137547.1	MSAM244923_1299_3204 LCM-dissected maize inbred l...	100	6e-17		
gb FL451865.1	13100827 CERES-CB5 Zea mays cDNA clone 1218827 3'...	98	3e-16		
gb FL451864.1	10982021 CERES-CB5 Zea mays cDNA clone 1218827 3'...	98	3e-16		
gb EG211835.1	MSAM058196_3231_0905 LCM-dissected maize inbred l...	98	3e-16		
gb FL455073.1	16632359 CERES-CB5 Zea mays cDNA clone 1146214 3'...	96	1e-15		
gb FL470481.1	10606265 CERES-CB6 Zea mays cDNA clone 1168199 3'...	96	1e-15		
gb CD526323.1	EST1750 Zea mays sperm cell cDNA library Zea mays...	94	4e-15		
gb FL347392.1	1747881 CERES-227 Zea mays cDNA clone 400160 5', ...	90	6e-14		
gb EG156227.1	MSAM281219_1210_4049 LCM-dissected maize inbred l...	88	2e-13		
gb EG272559.1	MSAM184733_2591_1943 LCM-dissected maize inbred l...	88	2e-13		
gb EG136737.1	MSAM243415_0331_1740 LCM-dissected maize inbred l...	86	1e-12		
gb EG125154.1	MSAM218621_1422_0209 LCM-dissected maize inbred l...	86	1e-12		
gb FF141400.1	OFAA-aaa62g06.b1 O. flexuosa_EST_pSMART Onchocerca...	84	4e-12		
gb EG194598.1	MSAM001557_2247_1458 LCM-dissected maize inbred l...	80	6e-11		
gb DW893845.1	MSAM113099_3559_0648 LCM-dissected maize shoot ap...	78	2e-10		
gb DW830995.1	MSAM264173_0180_3518 LCM-dissected maize shoot ap...	72	1e-08		
gb DW945813.1	MSAM225070_2378_1645 LCM-dissected maize shoot ap...	68	2e-07		
gb EG243928.1	MSAM131731_3893_1136 LCM-dissected maize inbred l...	66	9e-07		

gb	EG261924.1	MSAM202212_2841_1387 LCM-dissected maize inbred l...	66	9e-07
gb	DW972233.1	MSAM287451_3885_0583 LCM-dissected maize shoot ap...	66	9e-07
gb	EG176217.1	MSAM007276_3034_2445 LCM-dissected maize inbred l...	62	1e-05
gb	DW870027.1	MSAM045979_3454_2175 LCM-dissected maize shoot ap...	62	1e-05
gb	FL967575.1	CCHY8225.b1 CCHY Panicum virgatum callus (N) Pani...	58	2e-04
gb	EG094627.1	MSAM117657_0944_3029 LCM-dissected maize inbred l...	58	2e-04
gb	EG279004.1	MSAM238822_3284_2688 LCM-dissected maize inbred l...	58	2e-04
gb	DW952766.1	MSAM246175_3627_3291 LCM-dissected maize shoot ap...	58	2e-04
gb	DW739830.1	MSAM055005_1168_1927 LCM-dissected maize shoot ap...	58	2e-04
gb	FL470601.1	10391335 CERES-CB6 Zea mays cDNA clone 1166816 3'...	56	9e-04
gb	EG122367.1	MSAM213543_0399_2532 LCM-dissected maize inbred l...	56	9e-04
gb	EG064913.1	MSAM099669_0578_1949 LCM-dissected maize inbred l...	56	9e-04
gb	DT464774.1	GH_CHX16E04.r GH_CHX Gossypium hirsutum cDNA clon...	56	9e-04
gb	FL444656.1	1860010 CERES-197 Zea mays cDNA clone 289347 3', ...	54	0.003
gb	EG131418.1	MSAM183153_0247_2918 LCM-dissected maize inbred l...	54	0.003
gb	EG278067.1	MSAM237051_2164_0313 LCM-dissected maize inbred l...	54	0.003
gb	DW884389.1	MSAM085099_3297_2244 LCM-dissected maize shoot ap...	54	0.003
gb	EE177871.1	ZM_BFc0158M15.f ZM_BFc Zea mays cDNA clone ZM_BFc...	54	0.003
gb	DR810967.1	ZM_BFb0038P15.f ZM_BFb Zea mays cDNA 3', mRNA seq...	54	0.003
gb	CA129139.1	SCRFLR2034H10.g LR2 Saccharum hybrid cultivar SP8...	54	0.003
gb	CA624360.1	wlln.pk0118.h11 wlln Triticum aestivum cDNA clone...	54	0.003
gb	FL449557.1	25275633 CERES-504 Zea mays cDNA clone 1543085 3'...	52	0.013
gb	FL181981.1	25385388 CERES-505 Zea mays cDNA clone 1664626 5'...	52	0.013
gb	FL181975.1	25382983 CERES-505 Zea mays cDNA clone 1662221 5'...	52	0.013
gb	DW945646.1	MSAM224719_2697_2993 LCM-dissected maize shoot ap...	52	0.013
gb	CF919912.1	EST4212 Zea mays sperm cell cDNA library Zea mays...	52	0.013
gb	CA179013.1	SCSGST1069C02.b ST1 Saccharum hybrid cultivar SP8...	52	0.013
gb	CA090649.1	SCSGAM2105C02.b AM2 Saccharum hybrid cultivar SP8...	52	0.013
gb	CA090562.1	SCSGAM2105C02.g AM2 Saccharum hybrid cultivar SP8...	52	0.013
gb	EG171544.1	MSAM273353_0529_3957 LCM-dissected maize inbred l...	50	0.053
gb	DW840364.1	MSAM290571_0500_2033 LCM-dissected maize shoot ap...	50	0.053
gb	FL414619.1	5792184 CERES-CB5 Zea mays cDNA clone 1163363 5',...	48	0.21
gb	FL412940.1	6647374 CERES-CB5 Zea mays cDNA clone 1211549 5',...	48	0.21
gb	FL386242.1	6662328 CERES-CB6 Zea mays cDNA clone 1226503 5',...	48	0.21
gb	FL372857.1	5792169 CERES-CB5 Zea mays cDNA clone 1163348 5',...	48	0.21
gb	FL390932.1	6655462 CERES-CB5 Zea mays cDNA clone 1219637 5',...	48	0.21
gb	FL381566.1	5749223 CERES-CB5 Zea mays cDNA clone 1155021 5',...	48	0.21
gb	DW853896.1	MSAM318246_1248_2588 LCM-dissected maize shoot ap...	48	0.21
gb	DW833979.1	MSAM271088_0946_2262 LCM-dissected maize shoot ap...	48	0.21
gb	DW776038.1	MSAM143878_0611_1314 LCM-dissected maize shoot ap...	48	0.21
gb	CK327315.1	EST4624 Zea mays sperm cell cDNA library Zea mays...	48	0.21
gb	CF920066.1	EST4366 Zea mays sperm cell cDNA library Zea mays...	48	0.21
gb	CF627516.1	zmrws05_0B20-012-c03.s4 zmrws05 Zea mays cDNA 3',...	48	0.21
gb	CF050152.1	QCL8d07.yg QCL Zea mays cDNA clone QCL8d07, mRNA ...	48	0.21
gb	BM322403.1	PIC1_4_D07.b1_A002 Pathogen-infected compatible l...	48	0.21
gb	FL163223.1	6653349 CERES-CB5 Zea mays cDNA clone 1217524 5',...	46	0.83
gb	FL163221.1	6659451 CERES-CB5 Zea mays cDNA clone 1223626 5',...	46	0.83
gb	FL163220.1	6669993 CERES-CB6 Zea mays cDNA clone 1234168 5',...	46	0.83
gb	FL163218.1	6662101 CERES-CB6 Zea mays cDNA clone 1226276 5',...	46	0.83

gb	FL163217.1	6654616 CERES-CB5 Zea mays cDNA clone 1218791 5',...	46	0.83
gb	FL163215.1	5738996 CERES-CB5 Zea mays cDNA clone 1146287 5',...	46	0.83
gb	FL163214.1	6646819 CERES-CB5 Zea mays cDNA clone 1210994 5',...	46	0.83
gb	FL163213.1	6659882 CERES-CB5 Zea mays cDNA clone 1224057 5',...	46	0.83
gb	FL061059.1	6665270 CERES-CB6 Zea mays cDNA clone 1229445 5',...	46	0.83
gb	FK991356.1	5740242 CERES-CB6 Zea mays cDNA clone 1147533 5',...	46	0.83
gb	FK991355.1	6665245 CERES-CB6 Zea mays cDNA clone 1229420 5',...	46	0.83
gb	FK991354.1	6660973 CERES-CB6 Zea mays cDNA clone 1225148 5',...	46	0.83
gb	FK991353.1	6664156 CERES-CB6 Zea mays cDNA clone 1228331 5',...	46	0.83
gb	EG126585.1	MSAM221137_0158_0475 LCM-dissected maize inbred l...	46	0.83
gb	EG224928.1	MSAM123648_2411_0798 LCM-dissected maize inbred l...	46	0.83
gb	EG308159.1	MSAM260305_2985_0046 LCM-dissected maize inbred l...	46	0.83
gb	EG094444.1	MSAM117322_1237_2624 LCM-dissected maize inbred l...	46	0.83
gb	EG105069.1	MSAM177973_0587_0066 LCM-dissected maize inbred l...	46	0.83
gb	EY958855.1	Contag_8428 Maize ovary - Eveland 2007 Zea mays c...	46	0.83
gb	DW984436.1	MSAM361482_2399_0555 LCM-dissected maize shoot ap...	46	0.83
gb	DW968659.1	MSAM278959_3123_2208 LCM-dissected maize shoot ap...	46	0.83
gb	DW964403.1	MSAM268770_3379_3722 LCM-dissected maize shoot ap...	46	0.83
gb	DW898353.1	MSAM118718_2397_0553 LCM-dissected maize shoot ap...	46	0.83
gb	DW838950.1	MSAM282407_1557_3507 LCM-dissected maize shoot ap...	46	0.83
gb	DW780235.1	MSAM153038_1935_0558 LCM-dissected maize shoot ap...	46	0.83
gb	EB400206.1	ZM_BFb0305C08.f ZM_BFb Zea mays cDNA 3', mRNA seq...	46	0.83
gb	CX065243.1	PDUts2098D12 Porcine testis cDNA library II Sus s...	46	0.83
gb	DT464708.1	GH_CHX16C10.r GH_CHX Gossypium hirsutum cDNA clon...	46	0.83
gb	CK701021.1	EST5123 Zea mays sperm cell cDNA library Zea mays...	46	0.83
gb	CA236929.1	SCSBFL5015D04.g Saccharum officinarum FL5 Sacchar...	46	0.83
gb	CA236928.1	SCSBFL5015D03.g Saccharum officinarum FL5 Sacchar...	46	0.83
gb	CD439487.1	EL01N0525E01.b Endosperm_5 Zea mays cDNA, mRNA se...	46	0.83
gb	CD437461.1	EL01N0501C03.b Endosperm_5 Zea mays cDNA, mRNA se...	46	0.83
gb	BE598886.1	PI1_83_C01.b1_A002 Pathogen induced 1 (PI1) Sorgh...	46	0.83
gb	AW066079.1	687005G08.y1 687 - Early embryo from Delaware Zea...	46	0.83
gb	FL151656.1	2009566 CERES-197 Zea mays cDNA clone 411939 5', ...	44	3.3
gb	FL163212.1	5748905 CERES-CB5 Zea mays cDNA clone 1154703 5',...	44	3.3
gb	FL151333.1	1045133 CERES-197 Zea mays cDNA clone 219978 5', ...	44	3.3
emb	CU909173.1	CU909173 Mycelium grown for 48h Podospora anseri...	44	3.3
gb	EY886124.1	LT33-C1-003-014-F05-CT.F Tahiti lime leaf, greenh...	44	3.3
gb	EG051807.1	MSAM012067_0152_2204 LCM-dissected maize inbred l...	44	3.3
gb	EG159291.1	MSAM286380_0721_2171 LCM-dissected maize inbred l...	44	3.3
gb	EG287683.1	MSAM217260_2824_1862 LCM-dissected maize inbred l...	44	3.3
gb	EG059501.1	MSAM084114_1654_1108 LCM-dissected maize inbred l...	44	3.3
gb	EG092520.1	MSAM113605_0184_3136 LCM-dissected maize inbred l...	44	3.3
gb	EG169589.1	MSAM269985_1792_2076 LCM-dissected maize inbred l...	44	3.3
gb	EY264291.1	BF01030A1B12.f1 Normalized subtracted keck librar...	44	3.3
gb	EY259966.1	BF01003X1G03.f1 Normalized subtracted keck librar...	44	3.3
gb	EY259488.1	BF01025A1E10.f1 Normalized subtracted keck librar...	44	3.3
gb	EE047687.2	ZM_BFc0120J17.f ZM_BFc Zea mays cDNA clone ZM_BFc...	44	3.3
emb	AM581222.1	AM581222 RZPD MPMGp1173 Paracentrotus lividus GA...	44	3.3
gb	DW939742.1	MSAM211340_3186_3768 LCM-dissected maize shoot ap...	44	3.3
gb	DW897577.1	MSAM116936_3007_3914 LCM-dissected maize shoot ap...	44	3.3

gb EC102699.1	ACE00018328 1:1 combination of non-normalized and...	44	3.3
gb CA070197.1	SCSGAD1007H06.b AD1 Saccharum hybrid cultivar SP7...	44	3.3
gb CF041009.1	QCI20f01.yg QCI Zea mays cDNA clone QCI20f01, mRN...	44	3.3
gb BF706840.1	281486 MARC 3BOV Bos taurus cDNA 5', mRNA sequence	44	3.3

>gb|FL476102.1| 2002854 CERES-227 Zea mays cDNA clone 400160 3', mRNA sequence
Length = 555

Score = 167 bits (84), Expect = 3e-37
Identities = 172/200 (86%), Gaps = 1/200 (0%)
Strand = Plus / Minus

Query: 980 cttgtaaccaccacatatagatccatcccaagaagtagtgattacgcctctctaagcg 1039
|||||
Sbjct: 377 cttgtaaccaccacataaagatccttaccaggaagtagggattacgcctctccaagtg 318

Query: 1040 gcccaaacttgagaaaacgcctatccctctctcgtgcgtccagcacgaaccattgagt 1099
|||||
Sbjct: 317 gcccgaaactgtagaaaatcgctgtcg-tctctcgtgcatcttgtagcaaccattgagt 259

Query: 1100 tacaatcaacagcaccgtcctacccaaaagcaccgcaagggtagccctgggtgtgcgga 1159
|||||
Sbjct: 258 tacaatcaaaagcaccattctacccaaaagcactgcgaggggtaacccgggtgtgcggt 199

Query: 1160 cggactctaaacaccgacag 1179
|||
Sbjct: 198 cgggctccaaacaccgacag 179

>gb|CF273097.1| EST2659 Zea mays sperm cell cDNA library Zea mays cDNA clone Zmsp7172
5', mRNA sequence
Length = 689

Score = 123 bits (62), Expect = 4e-24
Identities = 179/218 (82%)
Strand = Plus / Minus

Query: 1975 cccgacttcgctcgtgcaatgaacacgccgagtgaagtcggaggggtactggcccagata 2034
|||||
Sbjct: 555 cccgacttcgctcagccatggacacaccgagtgaggtcgggtgggtattggctcggata 496

Query: 2035 gctgacggcctcccgcgaaccctagacacggaaggctaccggcggtgcttactcgagca 2094
|||

Sbjct: 495 gccgatggcctccctggattccggacgctgagggctatcggcggtgctcacccgagca 436

Query: 2095 gttaatcaccttctacccatcactaatcctccaagcgacctacgccatgccatcaacagc 2154
| ||||| ||||| || || ||||| || || ||||| ||||| |||||

Sbjct: 435 gctaatacatcttctacctctcgctcatcctccgagtgatctacgacatgccatcaacagt 376

Query: 2155 cggcgagacacgcggagctccatcaacgcttcgcgcga 2192
||||| ||| | ||||| ||||| ||||| |||||

Sbjct: 375 cggcgggacgcatggagctccatcaacgcttcgcgcga 338

>gb|FL432925.1| 25247980 CERES-CB5 Zea mays cDNA clone 1220987 3', mRNA sequence
Length = 387

Score = 121 bits (61), Expect = 2e-23

Identities = 109/125 (87%)

Strand = Plus / Minus

Query: 2088 tcgagcagttaatcaccttctacccatcactaatcctccaagcgacctacgccatgccat 2147
||||| || ||||| ||||| ||||| || ||||| || || ||||| ||| |||||

Sbjct: 387 tcgagtagctaatacaccttctgccatcgctcatcccccagagcaacctacaccagccat 328

Query: 2148 caacagccggcgagacacgcggagctccatcaacgcttcgcgcgaccgatgacacgaaag 2207
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 327 caacagccgacgagacgcgcggagctccatcaatgcttcgcgcgaccgacggcacgaaag 268

Query: 2208 tgaga 2212
||||

Sbjct: 267 cgaga 263

>gb|DW974630.1| MSAM293083_3262_0305 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 137

Score = 121 bits (61), Expect = 2e-23

Identities = 86/93 (92%), Gaps = 1/93 (1%)

Strand = Plus / Minus

Query: 1086 acgaaccattgagttacaatcaacagcaccgtcctacccaaaagcaccgcaagggtagc 1145
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 126 acgaaccattgagttacaatcaacagcaccgtcctacccaaaacaccgcaa-aggtaac 68

Query: 1146 cctgggtgtgcggacggactctaaacaccgaca 1178
||||||| | ||| |||||||||
Sbjct: 67 cctgggtgtgcagtcgggctctaaacaccgaca 35

>gb|FL470578.1| 25237854 CERES-CB5 Zea mays cDNA clone 1155571 3', mRNA sequence
Length = 610

Score = 119 bits (60), Expect = 7e-23
Identities = 102/116 (87%)
Strand = Plus / Minus

Query: 2097 taatcaccttctacccatcactaatcctccaagcgacctacgccatgccatcaacagccg 2156
||||||| ||||| || |||| | ||| ||||| || |||||||||
Sbjct: 606 taatcaccttctgccatcgctcatccccgagcaacctacaccagccatcaacagccg 547

Query: 2157 gcgagacacgcggagctccatcaacgcttcgcgcgaccgatgacacgaaagtgaga 2212
||||| ||||||||| ||||||||| | ||||||| |||
Sbjct: 546 acgagacgcgcggagctccatcaatgcttcgcgcgaccgacggcacgaaagcgaga 491

>gb|FL307895.1| 2966196 CERES-227 Zea mays cDNA clone 507820 5', mRNA sequence
Length = 463

Score = 109 bits (55), Expect = 7e-20
Identities = 97/111 (87%)
Strand = Plus / Minus

Query: 1069 tctctcgtgcgtccagcacgaaccattgagttacaatcaacagcaccgtcctacccaaaa 1128
||||||| || | ||||||||| ||||||| ||||| | |||||||
Sbjct: 440 tctctcgtgcatcttgtagaaccattgagttacaatcaaaagcaccattctacccaaaa 381

Query: 1129 gcaccgcaaggggtagccctgggtgtgcggacggactctaaacaccgacag 1179
|||| || ||||| || ||||||||| ||| || |||||||||
Sbjct: 380 gcactgcgaggggtaacccgggtgtgcggtcgggctccaaacaccgacag 330

>gb|EG290874.1| MSAM213298_2794_1558 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 119

Score = 99.6 bits (50), Expect = 6e-17
Identities = 83/94 (88%)
Strand = Plus / Minus

Query: 1112 caccgtcctacccaaaagcaccgcaaggggtagccctgggtgtgcggacggactctaaac 1171
|||||||
Sbjct: 111 caccgtcctacccaaaagcacctcgaggggtaacctcggtgtgcggtcgggtcccaaac 52

Query: 1172 accgacagctggcgcgccaggtagggggtgtgtc 1205
|||||||
Sbjct: 51 accgacagctagcgcgccaggtagggggtgtgtc 18

>gb|EG104957.1| MSAM177786_0974_2612 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 122

Score = 99.6 bits (50), Expect = 6e-17
Identities = 83/94 (88%)
Strand = Plus / Minus

Query: 1112 caccgtcctacccaaaagcaccgcaaggggtagccctgggtgtgcggacggactctaaac 1171
|||||||
Sbjct: 114 caccgtcctacccaaaagcacctcgaggggtaacctcggtgtgcggtcgggtcccaaac 55

Query: 1172 accgacagctggcgcgccaggtagggggtgtgtc 1205
|||||||
Sbjct: 54 accgacagctagcgcgccaggtagggggtgtgtc 21

>gb|EG137547.1| MSAM244923_1299_3204 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 119

Score = 99.6 bits (50), Expect = 6e-17
Identities = 83/94 (88%)
Strand = Plus / Minus

Query: 1112 caccgtcctacccaaaagcaccgcaaggggtagccctgggtgtgcggacggactctaaac 1171
|||||||
Sbjct: 111 caccgtcctacccaaaagcacctcgaggggtaacctcggtgtgcggtcgggtcccaaac 52

Query: 1172 accgacagctggcgcgccaggtagggggtgtgtc 1205
|||||||
Sbjct: 51 accgacagctagcgcgccaggtagggggtgtgtc 18

>gb|FL451865.1| 13100827 CERES-CB5 Zea mays cDNA clone 1218827 3', mRNA sequence
Length = 108

Score = 97.6 bits (49), Expect = 3e-16
Identities = 73/81 (90%)
Strand = Plus / Minus

Query: 2132 acctacgccatgccatcaacagccggcgagacacgcggagctccatcaacgcttcgcgcg 2191
||||| ||| ||||||||||||| ||||| ||||||||||||||| |||||||||
Sbjct: 107 acctacaccagccatcaacagccgacgagacgcgcggagctccatcaatgcttcgcgcg 48

Query: 2192 accgatgacacgaaagtgaga 2212
||||| | ||||||| |||
Sbjct: 47 accgacggcacgaaagcgaga 27

>gb|FL451864.1| 10982021 CERES-CB5 Zea mays cDNA clone 1218827 3', mRNA sequence
Length = 613

Score = 97.6 bits (49), Expect = 3e-16
Identities = 73/81 (90%)
Strand = Plus / Minus

Query: 2132 acctacgccatgccatcaacagccggcgagacacgcggagctccatcaacgcttcgcgcg 2191
||||| ||| ||||||||||||| ||||| ||||||||||||||| |||||||||
Sbjct: 612 acctacaccagccatcaacagccgacgagacgcgcggagctccatcaatgcttcgcgcg 553

Query: 2192 accgatgacacgaaagtgaga 2212
||||| | ||||||| |||
Sbjct: 552 accgacggcacgaaagcgaga 532

>gb|EG211835.1| MSAM058196_3231_0905 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 94

Score = 97.6 bits (49), Expect = 3e-16
Identities = 58/61 (95%)
Strand = Plus / Minus

Query: 1276 tgctttggaaccatctcatccatagcagatgaagagggaactctgcaccgcatagcagat 1335
||||||| ||||||||||||||||||||||| ||||||| |||||
Sbjct: 77 tgctttggaacgatctcatccatagcagatgaagagggaactctacaccgattgcagat 18

Query: 1336 c 1336

>gb|FL455073.1| 16632359 CERES-CB5 Zea mays cDNA clone 1146214 3', mRNA sequence
Length = 337

Query: 2004 gagtgaagtcggaggggtactggcccagatagctgacggcctcccgcgaacccctagacac 2063
 ||||||| ||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||
 Sbjct: 334 gagtgaagttggaggagtactggcgcagatagccgacggcctcccgcgaaccccagacgc 275

>gb|FL470481.1| 10606265 CERES-CB6 Zea mays cDNA clone 1168199 3', mRNA sequence
Length = 778

Query: 1966 aacctgtaccccgacttcgctcgtgcaatgaacacgccgagtgaagtcggagggggtactg 2025
 ||||| ||||||||| || || ||||||||| |||||||||
 Sbjct: 238 aacctgaaccccgacttcgcccgagccatgaacacgccgagtgaagtcggagggggtacta 297

Query: 2086 actcgagcagttaatcacctttctacccatcactaatcctccaagcgacctagcccatgcc 2145
||| ||||| ||| |||||||| ||| | ||| ||| ||||||||| ||| |||
Sbjct: 358 acccaagcagcaaccatcttctacctatcgctcaccgcggaacgacctagcacggc 417

|||||
Sbjct: 418 atcaacagccgctcgggacacgtgaagctccataaatgcttcgcg 461

>gb|CD526323.1| EST1750 Zea mays sperm cell cDNA library Zea mays cDNA clone Zmsp4711
5', mRNA sequence
Length = 347

Score = 93.7 bits (47), Expect = 4e-15
Identities = 71/79 (89%)
Strand = Plus / Plus

Query: 1149 gggtgtgcggacggactctaaacaccgacagctggcgccaggtaggggtgtgtcttt 1208
|||||
Sbjct: 74 gggtgtgcggtcggacccaaacaccgacagctggcgccaggtaggggtgtgtcgac 133

Query: 1209 gatctgagctagctcaatg 1227
||||
Sbjct: 134 gatccaagctagctcaatg 152

>gb|FL347392.1| 1747881 CERES-227 Zea mays cDNA clone 400160 5', mRNA sequence
Length = 422

Score = 89.7 bits (45), Expect = 6e-14
Identities = 82/93 (88%), Gaps = 1/93 (1%)
Strand = Plus / Minus

Query: 1088 gaaccattgagttacaatcaacagcaccgtcctacccaaaagcaccgcaaggggt-agcc 1146
|||||
Sbjct: 422 gaaccattgagttacaatcaaaagcaccattctacccaaaagcactgcgaggggtaaacc 363

Query: 1147 ctgggtgtgcggacggactctaaacaccgacag 1179
| |||||
Sbjct: 362 ccgggtgtgcggtcgggtccaaacaccgacag 330

>gb|EG156227.1| MSAM281219_1210_4049 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 123

Score = 87.7 bits (44), Expect = 2e-13
Identities = 85/96 (88%), Gaps = 2/96 (2%)
Strand = Plus / Plus

Query: 563 tgtgggggatagatatcccc-gggtccactagaaggcgagaaggcctcgc-gtgtggcca 620
||||||| ||||||| ||||||||||||| ||||| || | |||||
Sbjct: 7 tgtgggggacagatatccccgggtccactagaaggcaagaaggcgccgttgcggggcct 66

Query: 621 cgggccagttaccccgcaaggccatcccttcgtggg 656
||||||||||| |||||||||||||
Sbjct: 67 cgggccagttaccccaaggccatcccttcgtggg 102

>gb|EG272559.1| MSAM184733_2591_1943 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 122

Score = 87.7 bits (44), Expect = 2e-13
Identities = 85/96 (88%), Gaps = 2/96 (2%)
Strand = Plus / Plus

Query: 563 tgtgggggatagatatcccc-gggtccactagaaggcgagaaggcctcgc-gtgtggcca 620
||||||| ||||||| ||||||||||||| ||||| || | |||||
Sbjct: 6 tgtgggggacagatatccccgggtccactagaaggcaagaaggcgccgttgcggggcct 65

Query: 621 cgggccagttaccccgcaaggccatcccttcgtggg 656
||||||||||| |||||||||||||
Sbjct: 66 cgggccagttaccccaaggccatcccttcgtggg 101

>gb|EG136737.1| MSAM243415_0331_1740 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 117

Score = 85.7 bits (43), Expect = 1e-12
Identities = 73/83 (87%)
Strand = Plus / Minus

Query: 1123 caaaagcaccgcaagggtagccctgggtgtgcggacggactctaaacaccgacagctg 1182
||||||| ||||||| ||| ||||| ||||| || | |||||||||
Sbjct: 117 caaaagcaccacaagggtaacccgggtgcgcggtcgggtccaaacaccgacagctg 58

Query: 1183 gcgcgccaggtaggggtgtgtc 1205
|| |||||||||
Sbjct: 57 gcacgccaggtaggggtgtgtc 35

Strand = Plus / Minus

```
Query: 1277 gctttggaaccatctcatccatagcagatgaagagggaactctgcaccgcatagcagatc 1336
          |||||
Sbjct: 83   gctttggaacaatctcatccatagcagatgaagatggaattctacaccgcatgagatc 24
```

>gb|DW893845.1| MSAM113099_3559_0648 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 100

Score = 77.8 bits (39), Expect = 2e-10
Identities = 48/51 (94%)
Strand = Plus / Plus

```
Query: 1149 ggggtgtgcggacggactctaaacaccgacagctggcgcgccaggtaggggg 1199
          |||||
Sbjct: 33   ggggtgtgcggtcggaacccaaacaccgacagctggcgcgccaggtaggggg 83
```

>gb|DW830995.1| MSAM264173_0180_3518 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 108

Score = 71.9 bits (36), Expect = 1e-08
Identities = 57/64 (89%)
Strand = Plus / Plus

```
Query: 2140 catgccatcaacagccggcgagacacgcggagctccatcaacgcttcgcgcgaccgatga 2199
          |||||
Sbjct: 45   catgccatcaatagtttagcgagacgcgcggagctccatcaacgcttcggtgcgaccgacga 104
```

```
Query: 2200 cacg 2203
          |||
Sbjct: 105   cacg 108
```

>gb|DW945813.1| MSAM225070_2378_1645 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 97

Score = 67.9 bits (34), Expect = 2e-07
Identities = 56/62 (90%), Gaps = 1/62 (1%)
Strand = Plus / Plus

Query: 1172 accgacagctggcgcgccaggtagggggtgtgtctttgat-ctgagctagctcaatgacc 1230
||||||| ||||||||||||||||||| ||| || |||||||||||| ||
Sbjct: 9 accgacagctagcgcgccaggtagggggtgtgtcgctgacctaagctagctcaatggcc 68

Query: 1231 at 1232
||
Sbjct: 69 at 70

>gb|EG243928.1| MSAM131731_3893_1136 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 98

Score = 65.9 bits (33), Expect = 9e-07
Identities = 45/49 (91%)
Strand = Plus / Plus

Query: 1288 atctcatccatagcagatgaagagggaactctgcaccgcatagcagatc 1336
||||| | ||||||||||||||||||| ||||||| |||||||
Sbjct: 27 atctcattcgtagcagatgaagagggaactctacaccgattgcagatc 75

>gb|EG261924.1| MSAM202212_2841_1387 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 114

Score = 65.9 bits (33), Expect = 9e-07
Identities = 39/41 (95%)
Strand = Plus / Minus

Query: 1288 atctcatccatagcagatgaagagggaactctgcaccgcat 1328
||||| ||||||||||||||||||| |||||||
Sbjct: 112 atctcgtccatagcagatgaagagggaactctacaccgcat 72

>gb|DW972233.1| MSAM287451_3885_0583 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 126

Score = 65.9 bits (33), Expect = 9e-07
Identities = 36/37 (97%)
Strand = Plus / Minus

Query: 1475 tgtccacttcgccacaaaggagtggacacgattac 1511

|||||
Sbjct: 46 tgtccacttcgtccacaaaggagtggacacggattac 10

>gb|EG176217.1| MSAM007276_3034_2445 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 96

Score = 61.9 bits (31), Expect = 1e-05
Identities = 43/47 (91%)
Strand = Plus / Minus

Query: 1282 ggaaccatctcatccatagcagatgaagaggggaactctgcaccgcat 1328
|||||
Sbjct: 95 ggaacaatctcatcggtagcagatgaagaggggaactctacaccgcat 49

>gb|DW870027.1| MSAM045979_3454_2175 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 127

Score = 61.9 bits (31), Expect = 1e-05
Identities = 37/39 (94%)
Strand = Plus / Minus

Query: 1298 tagcagatgaagaggggaactctgcaccgcatagcagatc 1336
|||||
Sbjct: 123 tagcagatgaagaggggaactctacaccgcattgcagatc 85

>gb|FL967575.1| CCHY8225.b1 CCHY Panicum virgatum callus (N) Panicum virgatum cDNA
clone CCHY8225 5', mRNA sequence
Length = 738

Score = 58.0 bits (29), Expect = 2e-04
Identities = 32/33 (96%)
Strand = Plus / Minus

Query: 1166 ctaaaccacgacagctggcgccaggtagggg 1198
|||||
Sbjct: 297 ctaaaccacgacagctggcggtccaggtagggg 265

>gb|EG094627.1| MSAM117657_0944_3029 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 88

Score = 58.0 bits (29), Expect = 2e-04
Identities = 35/37 (94%)
Strand = Plus / Minus

Query: 1276 tgctttggaaccatctcatccatagcagatgaagagg 1312
||||||| ||||| |||||||||
Sbjct: 38 tgctttggaacgatctcgtccatagcagatgaagagg 2

>gb|EG279004.1| MSAM238822_3284_2688 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 92

Score = 58.0 bits (29), Expect = 2e-04
Identities = 65/77 (84%)
Strand = Plus / Minus

Query: 696 ggcaacagactcgagcccaacaatccatcggtcgtgcgtatccacagaaactaccg 755
||||| ||||| ||||| ||||| || ||||||||| || ||
Sbjct: 92 ggcaatagactcaagcccaagcaatctgtcaactcgtgcgtatccacagcaatcactcg 33

Query: 756 actttccgcgcatggc 772
||||| |||||
Sbjct: 32 actttccgcgcatggc 16

>gb|DW952766.1| MSAM246175_3627_3291 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 143

Score = 58.0 bits (29), Expect = 2e-04
Identities = 50/56 (89%), Gaps = 2/56 (3%)
Strand = Plus / Minus

Query: 508 gtttttaaaagttgtgccctatattttaaaatagggtactgatttaaaatattgtt 563
||||||| ||||| ||||| ||||| |||||
Sbjct: 118 gtttttaaaagttgagccctatatattt--aaataagatactgatttaagatattgtt 65

>gb|DW739830.1| MSAM055005_1168_1927 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 113

Score = 58.0 bits (29), Expect = 2e-04

Identities = 53/61 (86%)
Strand = Plus / Plus

Query: 494 gcactgttggaacagtttttaaagttgtgccctatatattttaaataagggtactgattta 553
 ||||| | |||| ||||| ||||| | |||||
Sbjct: 46 gcactgttgagctgttttatgagttgagccctatatattcaaaatagtgactgattta 105

Query: 554 a 554
 |
Sbjct: 106 a 106

>gb|FL470601.1| 10391335 CERES-CB6 Zea mays cDNA clone 1166816 3', mRNA sequence
 Length = 558

Score = 56.0 bits (28), Expect = 9e-04
Identities = 40/44 (90%)
Strand = Plus / Plus

Query: 1996 aacacgccgagtgagtcggagggtactggcccagatagctga 2039
 ||||| ||||| |||| || | |||||
Sbjct: 39 aacacgccgagcgaagtcggagggtactagctccgatagctga 82

Score = 56.0 bits (28), Expect = 9e-04
Identities = 52/60 (86%)
Strand = Plus / Plus

Query: 2130 cgacctacgccatgccatcaacagccgcgagacacgcggagctccatcaacgcttcgcg 2189
 |||| ||| || ||||| || |||| | ||||| |||||
Sbjct: 173 cgacatacgacagccatcaacagccgtcgggacagtgagctccataaacgcttcgcg 232

>gb|EG122367.1| MSAM213543_0399_2532 LCM-dissected maize inbred line Mo17 shoot
 apical meristem cDNA Zea mays cDNA, mRNA sequence
 Length = 95

Score = 56.0 bits (28), Expect = 9e-04
Identities = 43/48 (89%)
Strand = Plus / Minus

Query: 2065 gaaggctaccggcggtgcttactcgagcagttaatcaccttctaccc 2112
 ||||| || ||||| |||| |||| | |||||

Query: 1276 tgc ttt gga acc at ctc -at cc at ag ca gat ga ag ag gga act ct gc -acc gc at ag ca g 1333
 |||||
 Sbjct: 83 tgc ttc gga aca at ctc t at cc g ta g ca gat ga ag ag gga act ct act acc gc att gc ag 24

```
>gb|EG278067.1| MSAM237051_2164_0313 LCM-dissected maize inbred line Mo17 shoot
      apical meristem cDNA Zea mays cDNA, mRNA sequence
      Length = 113
```

```
Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
      ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 61 aaacgccgacagctggcgcgccaggtagggg 31
```

```
>gb|DW884389.1| MSAM085099_3297_2244 LCM-dissected maize shoot apical meristem cDNA
      Zea mays cDNA, mRNA sequence
      Length = 106
```

```
Query: 1298 tagcagatgaagaggggaactctgcaccgcatagcagatc 1336
          ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 102 tagcagatgaagaggggactctacaccgcattgcagatc 64
```

>gb|EE177871.1| ZM_BFc0158M15.f ZM_BFc Zea mays cDNA clone ZM_BFc0158M15 3', mRNA
sequence
Length = 692

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

Query: 350 ggtgggttttacagagtttaaaactagcggattatatagtggatataga 396
 ||||| | | |
Sbjct: 120 ggtgggttttttaaagtttaaaactggtggattatatagtggatataga 74

>gb|DR810967.1| ZM_BFb0038P15.f ZM_BFb Zea mays cDNA 3', mRNA sequence
 Length = 734

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

Query: 508 gtttttaaaagtgtgccctatatttttaaataagggtactgatttaa 554
 ||||| | | |
Sbjct: 10 gtttttataagtgaaccctatatttttaaataagagtactgatttaa 56

>gb|CA129139.1| SCRFLR2034H10.g LR2 Saccharum hybrid cultivar SP80-3280 cDNA clone
 SCRFLR2034H10 5', mRNA sequence
 Length = 611

Score = 54.0 bits (27), Expect = 0.003
Identities = 30/31 (96%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
 ||||| | |
Sbjct: 440 aaacatcgacagctggcgcgccaggtagggg 470

>gb|CA624360.1| wlln.pk0118.h11 wlln Triticum aestivum cDNA clone wlln.pk0118.h11
 5' end, mRNA sequence
 Length = 346

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

Query: 350 ggtgggttttacagagtttaaaactagcggattatatagtggatataga 396
 ||||| | | |
Sbjct: 228 ggtgggttttttaaagtttaaaactggtggattatatagtggatataga 274

>gb|FL449557.1| 25275633 CERES-504 Zea mays cDNA clone 1543085 3', mRNA sequence

Length = 529

Score = 52.0 bits (26), Expect = 0.013

Identities = 29/30 (96%)

Strand = Plus / Plus

Query: 526 ctatatattttaaataagggtactgattttaa 555

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

Sbjct: 444 ctatatatttaagatagggtactgattttaa 473

>gb|FL181981.1| 25385388 CERES-505 Zea mays cDNA clone 1664626 5', mRNA sequence

Length = 652

Score = 52.0 bits (26), Expect = 0.013

Identities = 29/30 (96%)

Strand = Plus / Plus

Query: 526 ctatatattttaaataagggtactgattttaa 555

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

Sbjct: 117 ctatatatttaagatagggtactgattttaa 146

>gb|FL181975.1| 25382983 CERES-505 Zea mays cDNA clone 1662221 5', mRNA sequence

Length = 643

Score = 52.0 bits (26), Expect = 0.013

Identities = 29/30 (96%)

Strand = Plus / Plus

Query: 526 ctatatattttaaataagggtactgattttaa 555

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

Sbjct: 117 ctatatatttaagatagggtactgattttaa 146

>gb|DW945646.1| MSAM224719_2697_2993 LCM-dissected maize shoot apical meristem cDNA

Zea mays cDNA, mRNA sequence

Length = 101

Score = 52.0 bits (26), Expect = 0.013

Identities = 60/70 (85%), Gaps = 1/70 (1%)

Strand = Plus / Plus

Query: 1221 ctcaatgaccattacctccaaatgcaagatcgccctt-cgccccgggactatgttttgct 1279

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

Sbjct: 19 ctcaatggccatcaccttcaagtggaagatcgcccttttcgccccgaaactatgttctgct 78

Query: 1280 ttggaacat 1289

|||||||

Sbjct: 79 ttggaacat 88

>gb|CF919912.1| EST4212 Zea mays sperm cell cDNA library Zea mays cDNA clone Zmsp9055

5', mRNA sequence

Length = 489

Score = 52.0 bits (26), Expect = 0.013

Identities = 57/66 (86%), Gaps = 1/66 (1%)

Strand = Plus / Minus

Query: 1068 ctctctcgtgcgtccagcacgaaccattgagttacaatcaacagcaccgtcctacccaaa 1127

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

Sbjct: 78 ctctctcgtgc-tctagcacgaaccatcgagttacgatcttcgacactgtcctacccaaa 20

Query: 1128 agcacc 1133

|||||

Sbjct: 19 agcacc 14

>gb|CA179013.1| SCSGST1069C02.b ST1 Saccharum hybrid cultivar SP80-3280 cDNA clone

SCSGST1069C02 3', mRNA sequence

Length = 726

Score = 52.0 bits (26), Expect = 0.013

Identities = 29/30 (96%)

Strand = Plus / Plus

Query: 1169 aacaccgacagctggcgcgccaggtagggg 1198

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

Sbjct: 207 aacaccgacagttggcgcgccaggtagggg 236

>gb|CA090649.1| SCSGAM2105C02.b AM2 Saccharum hybrid cultivar SP80-3280 cDNA clone

SCSGAM2105C02 3', mRNA sequence

Length = 568

Score = 52.0 bits (26), Expect = 0.013

Identities = 29/30 (96%)

Strand = Plus / Plus

Query: 1169 aacaccgacagctggcgcgccaggtagggg 1198
 |||||
Sbjct: 207 aacaccgacagttggcgcgccaggtagggg 236

>gb|CA090562.1| SCSGAM2105C02.g AM2 Saccharum hybrid cultivar SP80-3280 cDNA clone
 SCSGAM2105C02 5', mRNA sequence
 Length = 674

Score = 52.0 bits (26), Expect = 0.013
Identities = 29/30 (96%)
Strand = Plus / Minus

Query: 1169 aacaccgacagctggcgcgccaggtagggg 1198
 |||||
Sbjct: 493 aacaccgacagttggcgcgccaggtagggg 464

>gb|EG171544.1| MSAM273353_0529_3957 LCM-dissected maize inbred line Mo17 shoot
 apical meristem cDNA Zea mays cDNA, mRNA sequence
 Length = 109

Score = 50.1 bits (25), Expect = 0.053
Identities = 37/41 (90%)
Strand = Plus / Minus

Query: 1288 atctcatccatagcagatgaagagggaactctgcaccgcat 1328
 |||||
Sbjct: 81 atctcatctatagcagatgaaaagggaattctacaccgcat 41

>gb|DW840364.1| MSAM290571_0500_2033 LCM-dissected maize shoot apical meristem cDNA
 Zea mays cDNA, mRNA sequence
 Length = 121

Score = 50.1 bits (25), Expect = 0.053
Identities = 28/29 (96%)
Strand = Plus / Minus

Query: 567 ggggatagatatccccgggtccactagaa 595
 |||||
Sbjct: 117 ggggacagatatccccgggtccactagaa 89

>gb|FL414619.1| 5792184 CERES-CB5 Zea mays cDNA clone 1163363 5', mRNA sequence

Length = 326

Score = 48.1 bits (24), Expect = 0.21
Identities = 31/32 (96%), Gaps = 1/32 (3%)
Strand = Plus / Minus

```
Query: 562 ttgtgggggatagatatcccc-gggtccacta 592
      ||||||||||||||||||| |||||||||
Sbjct: 99  ttgtgggggatagatatcccctgggtccacta 68
```

>gb|FL412940.1| 6647374 CERES-CB5 Zea mays cDNA clone 1211549 5', mRNA sequence
Length = 467

Score = 48.1 bits (24), Expect = 0.21
Identities = 31/32 (96%), Gaps = 1/32 (3%)
Strand = Plus / Minus

```
Query: 562 ttgtgggggatagatatcccc-gggtccacta 592
      ||||||||||||||||||| |||||||||
Sbjct: 99  ttgtgggggatagatatcccctgggtccacta 68
```

>gb|FL386242.1| 6662328 CERES-CB6 Zea mays cDNA clone 1226503 5', mRNA sequence
Length = 273

Score = 48.1 bits (24), Expect = 0.21
Identities = 31/32 (96%), Gaps = 1/32 (3%)
Strand = Plus / Minus

```
Query: 562 ttgtgggggatagatatcccc-gggtccacta 592
      ||||||||||||||||||| |||||||||
Sbjct: 99  ttgtgggggatagatatcccctgggtccacta 68
```

>gb|FL372857.1| 5792169 CERES-CB5 Zea mays cDNA clone 1163348 5', mRNA sequence
Length = 277

Score = 48.1 bits (24), Expect = 0.21
Identities = 31/32 (96%), Gaps = 1/32 (3%)
Strand = Plus / Minus

```
Query: 562 ttgtgggggatagatatcccc-gggtccacta 592
      ||||||||||||||||||| |||||||||
Sbjct: 99  ttgtgggggatagatatcccctgggtccacta 68
```


>gb|FL390932.1| 6655462 CERES-CB5 Zea mays cDNA clone 1219637 5', mRNA sequence
Length = 271

Score = 48.1 bits (24), Expect = 0.21
Identities = 31/32 (96%), Gaps = 1/32 (3%)
Strand = Plus / Minus

Query: 562 ttgtgggggatagatatcccc-gggtccacta 592
|||||||
Sbjct: 99 ttgtgggggatagatatcccctgggtccacta 68

>gb|FL381566.1| 5749223 CERES-CB5 Zea mays cDNA clone 1155021 5', mRNA sequence
Length = 187

Score = 48.1 bits (24), Expect = 0.21
Identities = 31/32 (96%), Gaps = 1/32 (3%)
Strand = Plus / Minus

Query: 562 ttgtgggggatagatatcccc-gggtccacta 592
|||||||
Sbjct: 99 ttgtgggggatagatatcccctgggtccacta 68

>gb|DW853896.1| MSAM318246_1248_2588 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 109

Score = 48.1 bits (24), Expect = 0.21
Identities = 27/28 (96%)
Strand = Plus / Plus

Query: 1171 caccgacagctggcgcgccaggtagggg 1198
|||||||
Sbjct: 1 caccgacagtggcgcgccaggtagggg 28

>gb|DW833979.1| MSAM271088_0946_2262 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 136

Score = 48.1 bits (24), Expect = 0.21
Identities = 31/32 (96%), Gaps = 1/32 (3%)
Strand = Plus / Plus

Query: 562 ttgtgggggatagatatcccc-gggtccacta 592
|||||||
Sbjct: 64 ttgtgggggatagatatcccctgggtccacta 95

>gb|DW776038.1| MSAM143878_0611_1314 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 121

Score = 48.1 bits (24), Expect = 0.21
Identities = 42/48 (87%)
Strand = Plus / Plus

Query: 881 agtgcacacggtcgtgtatataaggtccagagggtaccccatcattt 928
|||||||
Sbjct: 6 agtgcacacggtcatgtatataaggcctaggaggaaccccatcattt 53

>gb|CK327315.1| EST4624 Zea mays sperm cell cDNA library Zea mays cDNA clone
Zmsp11503 5', mRNA sequence
Length = 655

Score = 48.1 bits (24), Expect = 0.21
Identities = 31/32 (96%), Gaps = 1/32 (3%)
Strand = Plus / Minus

Query: 562 ttgtgggggatagatat-ccccgggtccacta 592
|||||||
Sbjct: 206 ttgtgggggatagatatccccgggtccacta 175

>gb|CF920066.1| EST4366 Zea mays sperm cell cDNA library Zea mays cDNA clone
Zmsp10511 5', mRNA sequence
Length = 434

Score = 48.1 bits (24), Expect = 0.21
Identities = 45/52 (86%)
Strand = Plus / Plus

Query: 1071 tctcgtgcgtccagcacgaaccattgagttacaatcaacagcacgcgtcctac 1122
|||||||
Sbjct: 343 tctcgtgcgcctgcacgaaccatcgagctacagtcggcagcacgcgtcctac 394

>gb|CF627516.1| zmrws05_0B20-012-c03.s4 zmrws05 Zea mays cDNA 3', mRNA sequence
Length = 672

Score = 48.1 bits (24), Expect = 0.21
Identities = 43/48 (89%), Gaps = 1/48 (2%)
Strand = Plus / Minus

Query: 563 tgtgggggatagatatcccc-gggtccactagaaggcgagaaggcctc 609
||||| ||||| ||||||||| ||||||||| ||||| |||||
Sbjct: 391 tgtgaggacagatatccccgggtccactagaaggctagaagacctc 344

>gb|CF050152.1| QCL8d07.yg QCL Zea mays cDNA clone QCL8d07, mRNA sequence
Length = 702

Score = 48.1 bits (24), Expect = 0.21
Identities = 54/64 (84%)
Strand = Plus / Minus

Query: 1115 cgtcctacccaaaagcaccgcaagggttagccctgggtgtgcggacggactctaaacacc 1174
||||| ||||||| || ||||||| ||| ||||| ||||| ||| |||||
Sbjct: 590 cgtcctacccaaaagcacctcgagggttaacccgggtgcgcggtcgggtccaaacacc 531

Query: 1175 gaca 1178
|||||
Sbjct: 530 gaca 527

>gb|BM322403.1| PIC1_4_D07.b1_A002 Pathogen-infected compatible 1 (PIC1) Sorghum
bicolor cDNA, mRNA sequence
Length = 512

Score = 48.1 bits (24), Expect = 0.21
Identities = 24/24 (100%)
Strand = Plus / Minus

Query: 1180 ctggcgcgccaggtaggggtgtg 1203
||||| ||||||| ||||||| |||||
Sbjct: 347 ctggcgcgccaggtaggggtgtg 324

>gb|FL163223.1| 6653349 CERES-CB5 Zea mays cDNA clone 1217524 5', mRNA sequence
Length = 451

Score = 46.1 bits (23), Expect = 0.83

Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| |||||||||||||||||
Sbjct: 37 aaacgccgacagttggcgcgccaggtagggg 7

>gb|FL163221.1| 6659451 CERES-CB5 Zea mays cDNA clone 1223626 5', mRNA sequence
Length = 465

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| |||||||||||||||||
Sbjct: 306 aaacgccgacagttggcgcgccaggtagggg 276

>gb|FL163220.1| 6669993 CERES-CB6 Zea mays cDNA clone 1234168 5', mRNA sequence
Length = 492

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| |||||||||||||||||
Sbjct: 306 aaacgccgacagttggcgcgccaggtagggg 276

>gb|FL163218.1| 6662101 CERES-CB6 Zea mays cDNA clone 1226276 5', mRNA sequence
Length = 319

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| |||||||||||||||||
Sbjct: 37 aaacgccgacagttggcgcgccaggtagggg 7

>gb|FL163217.1| 6654616 CERES-CB5 Zea mays cDNA clone 1218791 5', mRNA sequence

Length = 365

Score = 46.1 bits (23), Expect = 0.83

Identities = 29/31 (93%)

Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198

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

Sbjct: 306 aaacgccgacagttggcgcgccaggtagggg 276

>gb|FL163215.1| 5738996 CERES-CB5 Zea mays cDNA clone 1146287 5', mRNA sequence

Length = 475

Score = 46.1 bits (23), Expect = 0.83

Identities = 29/31 (93%)

Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198

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

Sbjct: 37 aaacgccgacagttggcgcgccaggtagggg 7

>gb|FL163214.1| 6646819 CERES-CB5 Zea mays cDNA clone 1210994 5', mRNA sequence

Length = 76

Score = 46.1 bits (23), Expect = 0.83

Identities = 29/31 (93%)

Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198

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

Sbjct: 37 aaacgccgacagttggcgcgccaggtagggg 7

>gb|FL163213.1| 6659882 CERES-CB5 Zea mays cDNA clone 1224057 5', mRNA sequence

Length = 429

Score = 46.1 bits (23), Expect = 0.83

Identities = 29/31 (93%)

Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198

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

Sbjct: 37 aaacgccgacagttggcgcgccaggtagggg 7

>gb|FL061059.1| 6665270 CERES-CB6 Zea mays cDNA clone 1229445 5', mRNA sequence
Length = 463

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| |||||||||||||||||
Sbjct: 387 aaacgccgacagttggcgcgccaggtagggg 357

>gb|FK991356.1| 5740242 CERES-CB6 Zea mays cDNA clone 1147533 5', mRNA sequence
Length = 445

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| |||||||||||||||||
Sbjct: 258 aaacgccgacagttggcgcgccaggtagggg 288

>gb|FK991355.1| 6665245 CERES-CB6 Zea mays cDNA clone 1229420 5', mRNA sequence
Length = 433

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| |||||||||||||||||
Sbjct: 258 aaacgccgacagttggcgcgccaggtagggg 288

>gb|FK991354.1| 6660973 CERES-CB6 Zea mays cDNA clone 1225148 5', mRNA sequence
Length = 443

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| ||||||||||||||||
Sbjct: 258 aaacgccgacagttggcgcgccaggtagggg 288

>gb|FK991353.1| 6664156 CERES-CB6 Zea mays cDNA clone 1228331 5', mRNA sequence
Length = 342

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| ||||||||||||||||
Sbjct: 258 aaacgccgacagttggcgcgccaggtagggg 288

>gb|EG126585.1| MSAM221137_0158_0475 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 77

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| ||||||||||||||||
Sbjct: 23 aaacgccgacagttggcgcgccaggtagggg 53

>gb|EG224928.1| MSAM123648_2411_0798 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 90

Score = 46.1 bits (23), Expect = 0.83
Identities = 30/31 (96%), Gaps = 1/31 (3%)
Strand = Plus / Plus

Query: 563 tgtgggggatagatat-ccccgggtccacta 592
|||||||||||||| ||||||||||||
Sbjct: 43 tgtgggggatagatatccccgggtccacta 73

>gb|EG308159.1| MSAM260305_2985_0046 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 108

Score = 46.1 bits (23), Expect = 0.83
Identities = 86/107 (80%)
Strand = Plus / Plus

Query: 922 atcatttctatcgaccatctacctatctcatcagcttttctccattcaggagacctcgct 981
||||||| ||||||||| | | ||| ||| ||||| ||| | ||||| || ||
Sbjct: 2 atcatttccatcgaccatctactcaaccattagcctttcttcatactggagacttctct 61

Query: 982 tgtaaccaccacatatagatccatcccaagaagtagtgtattacgc 1028
||||||| | || ||| ||||||| ||| ||||||| || |||||||
Sbjct: 62 tgtaacctaacatataaagatccacaccaggaagtagggtgttacgc 108

>gb|EG094444.1| MSAM117322_1237_2624 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 109

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 364 agtttaaactagcggattatatagtggtata 394
||||||| ||| ||||||||| |||||||
Sbjct: 52 agtttaaactggtggattatatagtggtata 82

>gb|EG105069.1| MSAM177973_0587_0066 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 128

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 364 agtttaaactagcggattatatagtggtata 394
||||||| ||| ||||||||| |||||||
Sbjct: 11 agtttaaactggtggattatatagtggtata 41

>gb|EY958855.1| Contag_8428 Maize ovary - Eveland 2007 Zea mays cDNA, mRNA sequence
Length = 110

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)

Strand = Plus / Plus

Query: 364 agtttaaactagcggattatatagtggtata 394
 ||||||| | |||||
Sbjct: 28 agtttaaactggtgattatatagtggtata 58

>gb|DW984436.1| MSAM361482_2399_0555 LCM-dissected maize shoot apical meristem cDNA
 Zea mays cDNA, mRNA sequence
 Length = 145

Score = 46.1 bits (23), Expect = 0.83
Identities = 47/55 (85%)
Strand = Plus / Minus

Query: 1125 aaaagcaccgcaagggtagccctgggtgtgcggacggactctaaacaccgacag 1179
 ||||||| | |||| | ||||| |||| |||| | |||||
Sbjct: 124 aaaagcacctcgaggggaaccctgggtgcgcggtcggacccaaaacaccgacag 70

>gb|DW968659.1| MSAM278959_3123_2208 LCM-dissected maize shoot apical meristem cDNA
 Zea mays cDNA, mRNA sequence
 Length = 132

Score = 46.1 bits (23), Expect = 0.83
Identities = 30/31 (96%), Gaps = 1/31 (3%)
Strand = Plus / Minus

Query: 563 tgtgggggatagatat-ccccgggtccacta 592
 ||||||| |||||
Sbjct: 46 tgtgggggatagatatccccgggtccacta 16

>gb|DW964403.1| MSAM268770_3379_3722 LCM-dissected maize shoot apical meristem cDNA
 Zea mays cDNA, mRNA sequence
 Length = 120

Score = 46.1 bits (23), Expect = 0.83
Identities = 26/27 (96%)
Strand = Plus / Minus

Query: 565 tgggggatagatatccccgggtccact 591
 ||||| |||||
Sbjct: 65 tgggggacagatatccccgggtccact 39

>gb|DW898353.1| MSAM118718_2397_0553 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 146

Score = 46.1 bits (23), Expect = 0.83
Identities = 47/55 (85%)
Strand = Plus / Minus

Query: 1125 aaaagcaccgcaaggggtagccctgggtgtgcggacggactctaaacaccgacag 1179
||||||| | ||||| | ||||| |||| | ||||| |||||
Sbjct: 125 aaaagcacctcgaggggcaaccctgggtgcgcggtcggacccaaaacaccgacag 71

>gb|DW838950.1| MSAM282407_1557_3507 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 109

Score = 46.1 bits (23), Expect = 0.83
Identities = 38/43 (88%)
Strand = Plus / Plus

Query: 883 tgccccacggtcgtgtatataaggtccagagggtaccccatca 925
||||||| ||||| | || || |||||
Sbjct: 64 tgccccacggtcagtatataaggcctaggggcaccccatca 106

>gb|DW780235.1| MSAM153038_1935_0558 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 128

Score = 46.1 bits (23), Expect = 0.83
Identities = 30/31 (96%), Gaps = 1/31 (3%)
Strand = Plus / Plus

Query: 563 tgtgggggatagatatcccc-gggtccacta 592
||||||| |||||
Sbjct: 26 tgtgggggatagatatcccctgggtccacta 56

>gb|EB400206.1| ZM_BFb0305C08.f ZM_BFb Zea mays cDNA 3', mRNA sequence
Length = 412

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 524 ccctatatattttaaaatagggtactgatttaa 554
 ||||| ||||| |||||
Sbjct: 11 ccctatatattttaaaatagagtactgatttaa 41

>gb|CX065243.1| PDUts2098D12 Porcine testis cDNA library II Sus scrofa cDNA clone
PDUts2098D12 5' similar to homologue to emb|AL773562.14|
Pig DNA sequence from clone XX-649D6, complete sequence,
mRNA sequence
Length = 596

Score = 46.1 bits (23), Expect = 0.83
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 402 tagttttattagaacatctccaa 424
 |||||
Sbjct: 306 tagttttattagaacatctccaa 328

>gb|DT464708.1| GH_CHX16C10.r GH_CHX Gossypium hirsutum cDNA clone GH_CHX16C10 3',
mRNA sequence
Length = 740

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
 |||| | |||||
Sbjct: 494 aaacgccgacagttggcgcgccaggtagggg 464

>gb|CK701021.1| EST5123 Zea mays sperm cell cDNA library Zea mays cDNA clone
Zmsp12688 5', mRNA sequence
Length = 294

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Minus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
 |||| | |||||
Sbjct: 81 aaacgccgacagttggcgcgccaggtagggg 51

>gb|CA236929.1| SCSBFL5015D04.g Saccharum officinarum FL5 Saccharum hybrid cultivar
(mixed) cDNA clone SCSBFL5015D04 5', mRNA sequence
Length = 923

Score = 46.1 bits (23), Expect = 0.83
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggta 1194
||||| ||||||||||||||||||||
Sbjct: 383 aaacatcgacagctggcgcgccaggta 409

>gb|CA236928.1| SCSBFL5015D03.g Saccharum officinarum FL5 Saccharum hybrid cultivar
(mixed) cDNA clone SCSBFL5015D03 5', mRNA sequence
Length = 730

Score = 46.1 bits (23), Expect = 0.83
Identities = 26/27 (96%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggta 1194
||||| ||||||||||||||||||||
Sbjct: 383 aaacatcgacagctggcgcgccaggta 409

>gb|CD439487.1| EL01N0525E01.b Endosperm_5 Zea mays cDNA, mRNA sequence
Length = 829

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| ||||||| ||||||||||||||||
Sbjct: 374 aaacgccgacagttggcgcgccaggtagggg 404

>gb|CD437461.1| EL01N0501C03.b Endosperm_5 Zea mays cDNA, mRNA sequence
Length = 727

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| |||||| ||||||||||||||||
Sbjct: 371 aaacgccgacagttggcgcgccaggtagggg 401

>gb|BE598886.1| PI1_83_C01.b1_A002 Pathogen induced 1 (PI1) Sorghum bicolor cDNA,
mRNA sequence
Length = 465

Score = 46.1 bits (23), Expect = 0.83
Identities = 23/23 (100%)
Strand = Plus / Plus

Query: 1181 tggcgcgccaggtagggggtgtg 1203
||||||||||||||||||
Sbjct: 112 tggcgcgccaggtagggggtgtg 134

>gb|AW066079.1| 687005G08.y1 687 - Early embryo from Delaware Zea mays cDNA, mRNA
sequence
Length = 579

Score = 46.1 bits (23), Expect = 0.83
Identities = 29/31 (93%)
Strand = Plus / Plus

Query: 1168 aaacaccgacagctggcgcgccaggtagggg 1198
|||| |||||| ||||||||||||||||
Sbjct: 479 aaacgccgacagttggcgcgccaggtagggg 509

>gb|FL151656.1| 2009566 CERES-197 Zea mays cDNA clone 411939 5', mRNA sequence
Length = 361

Score = 44.1 bits (22), Expect = 3.3
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 55 gaggggaaggggaggatcgatgg 76
||||||||||||||
Sbjct: 60 gaggggaaggggaggatcgatgg 81

>gb|FL163212.1| 5748905 CERES-CB5 Zea mays cDNA clone 1154703 5', mRNA sequence

Length = 317

Score = 44.1 bits (22), Expect = 3.3

Identities = 25/26 (96%)

Strand = Plus / Minus

Query: 1173 ccgacagctggcgccaggtagggg 1198

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

Sbjct: 32 ccgacagtggcgccaggtagggg 7

>gb|FL151333.1| 1045133 CERES-197 Zea mays cDNA clone 219978 5', mRNA sequence

Length = 459

Score = 44.1 bits (22), Expect = 3.3

Identities = 22/22 (100%)

Strand = Plus / Plus

Query: 55 gagggaaggggaggatcgatgg 76

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

Sbjct: 60 gagggaaggggaggatcgatgg 81

>emb|CU909173.1| CU909173 Mycelium grown for 48h Podospora anserina cDNA clone

HHOAC19CB02., mRNA sequence

Length = 1279

Score = 44.1 bits (22), Expect = 3.3

Identities = 22/22 (100%)

Strand = Plus / Minus

Query: 1813 gaagctttagaagtaggaaaaa 1834

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

Sbjct: 36 gaagctttagaagtaggaaaaa 15

>gb|EY886124.1| LT33-C1-003-014-F05-CT.F Tahiti lime leaf, greenhouse plant Citrus

latifolia cDNA, mRNA sequence

Length = 952

Score = 44.1 bits (22), Expect = 3.3

Identities = 22/22 (100%)

Strand = Plus / Plus

Query: 337 gtgatttttgttggtgggttt 358

|||||
Sbjct: 213 gtgatttttgttgggtgggttt 234

>gb|EG051807.1| MSAM012067_0152_2204 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 97

Score = 44.1 bits (22), Expect = 3.3
Identities = 52/62 (83%)
Strand = Plus / Minus

Query: 266 tcgattttgatggtatgttaaatttgtgtgtcatttgtttgatggatttagtaaaggta 325
|||||
Sbjct: 88 tcgattttgatggtgtgataattttgggtggaattcgtttggtggatttagtagagatta 29

Query: 326 tg 327
||
Sbjct: 28 tg 27

>gb|EG159291.1| MSAM286380_0721_2171 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 116

Score = 44.1 bits (22), Expect = 3.3
Identities = 56/66 (84%), Gaps = 1/66 (1%)
Strand = Plus / Plus

Query: 1069 tctctcgtgcgtccagcacgaaccattgagttacaatcaacagcaccgtcctac-ccaaa 1127
|||||
Sbjct: 2 tctctcgtgcatttagcacgaaccatcgagctacagtcggtaacaccgtcctactccaaa 61

Query: 1128 agcacc 1133
|||||
Sbjct: 62 agcacc 67

>gb|EG287683.1| MSAM217260_2824_1862 LCM-dissected maize inbred line Mo17 shoot
apical meristem cDNA Zea mays cDNA, mRNA sequence
Length = 91

Score = 44.1 bits (22), Expect = 3.3
Identities = 32/34 (94%), Gaps = 1/34 (2%)
Strand = Plus / Minus

Query: 579 ccccggtccactagaagg-cgagaaggcctcgc 611
 |||||
Sbjct: 43 ccccggtccactagaaggctctagaaggcctcgc 10

>gb|EG059501.1| MSAM084114_1654_1108 LCM-dissected maize inbred line Mo17 shoot
 apical meristem cDNA Zea mays cDNA, mRNA sequence
 Length = 110

Score = 44.1 bits (22), Expect = 3.3
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 563 tgtgggggatagatatccccgggtcc 588
 |||||
Sbjct: 39 tgtgttgatagatatccccgggtcc 64

>gb|EG092520.1| MSAM113605_0184_3136 LCM-dissected maize inbred line Mo17 shoot
 apical meristem cDNA Zea mays cDNA, mRNA sequence
 Length = 118

Score = 44.1 bits (22), Expect = 3.3
Identities = 32/34 (94%), Gaps = 1/34 (2%)
Strand = Plus / Minus

Query: 563 tgtgggggatagatatcccc-gggtccactagaa 595
 |||||
Sbjct: 46 tgtgggggacagatatccccgggtccactagaa 13

>gb|EG169589.1| MSAM269985_1792_2076 LCM-dissected maize inbred line Mo17 shoot
 apical meristem cDNA Zea mays cDNA, mRNA sequence
 Length = 117

Score = 44.1 bits (22), Expect = 3.3
Identities = 46/54 (85%)
Strand = Plus / Plus

Query: 1125 aaaagcaccgcaagggtagccctgggtgtgcggacggactctaaacaccgaca 1178
 |||||
Sbjct: 5 aaaagcacctcgaggggcaaccctgggtgctgcggacggacccaaacaccgaca 58

>gb|EY264291.1| BF01030A1B12.f1 Normalized subtracted keck library BF01 Danaus
plexippus cDNA clone BF01030A1B12.f1 5, mRNA sequence
Length = 636

Score = 44.1 bits (22), Expect = 3.3
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 500 ttggaacagtttttaaagttg 521
|||||||
Sbjct: 374 ttggaacagtttttaaagttg 395

>gb|EY259966.1| BF01003X1G03.f1 Normalized subtracted keck library BF01 Danaus
plexippus cDNA clone BF01003X1G03.f1 5, mRNA sequence
Length = 753

Score = 44.1 bits (22), Expect = 3.3
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 500 ttggaacagtttttaaagttg 521
|||||||
Sbjct: 270 ttggaacagtttttaaagttg 291

>gb|EY259488.1| BF01025A1E10.f1 Normalized subtracted keck library BF01 Danaus
plexippus cDNA clone BF01025A1E10.f1 5, mRNA sequence
Length = 766

Score = 44.1 bits (22), Expect = 3.3
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 500 ttggaacagtttttaaagttg 521
|||||||
Sbjct: 387 ttggaacagtttttaaagttg 408

>gb|EE047687.2| ZM_BFc0120J17.f ZM_BFc Zea mays cDNA clone ZM_BFc0120J17 3', mRNA
sequence
Length = 462

Score = 44.1 bits (22), Expect = 3.3
Identities = 29/30 (96%), Gaps = 1/30 (3%)
Strand = Plus / Minus

Query: 563 tgtgggggatagatatcccc-gggtccact 591
|||||||
Sbjct: 30 tgtgggggatagatatcccctgggtccact 1

>emb|AM581222.1| AM581222 RZPD MPMGp1173 Paracentrotus lividus GASPLU Paracentrotus
lividus cDNA clone MPMGp1173F0730Q 5', mRNA sequence
Length = 814

Score = 44.1 bits (22), Expect = 3.3
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 47 tggaaggggaggggaaggggagg 68
|||||||
Sbjct: 779 tggaaggggaggggaaggggagg 800

>gb|DW939742.1| MSAM211340_3186_3768 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 94

Score = 44.1 bits (22), Expect = 3.3
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 1271 tgttttgctttggaaccatctcatcc 1296
|||| |
Sbjct: 65 tgttctgctttggaaccatctcatcc 90

>gb|DW897577.1| MSAM116936_3007_3914 LCM-dissected maize shoot apical meristem cDNA
Zea mays cDNA, mRNA sequence
Length = 107

Score = 44.1 bits (22), Expect = 3.3
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 563 tgtgggggatagatatccccgggtcc 588
||||| |
Sbjct: 61 tgtgggcgatagatatccccgggtcc 36

>gb|EC102699.1| ACE00018328 1:1 combination of non-normalized and normalized-small
libraries Acanthamoeba castellanii cDNA, mRNA sequence
Length = 503

Score = 44.1 bits (22), Expect = 3.3
Identities = 22/22 (100%)
Strand = Plus / Plus

Query: 1898 aggaccgagaacgagagcaagc 1919
|||||||
Sbjct: 417 aggaccgagaacgagagcaagc 438

>gb|CA070197.1| SCSGAD1007H06.b AD1 Saccharum hybrid cultivar SP70-1143 cDNA clone
SCSGAD1007H06 3', mRNA sequence
Length = 552

Score = 44.1 bits (22), Expect = 3.3
Identities = 25/26 (96%)
Strand = Plus / Plus

Query: 1173 ccgacagctggcgcgccaggtagggg 1198
|||||||
Sbjct: 211 ccgacagttggcgcgccaggtagggg 236

>gb|CF041009.1| QCI20f01.yg QCI Zea mays cDNA clone QCI20f01, mRNA sequence
Length = 526

Score = 44.1 bits (22), Expect = 3.3
Identities = 28/30 (93%)
Strand = Plus / Plus

Query: 526 ctatatattttaaataagggtactgattttaa 555
|||||||
Sbjct: 289 ctatatatttaaggtagggtactgattttaa 318

>gb|BF706840.1| 281486 MARC 3BOV Bos taurus cDNA 5', mRNA sequence
Length = 473

Score = 44.1 bits (22), Expect = 3.3
Identities = 25/26 (96%)
Strand = Plus / Minus

Query: 44 ggggtggaaggggaggggaaggggagga 69
||||| ||||||||||||||||
Sbjct: 473 ggggtgggaggggaggggaaggggagga 448

Database: /usr/local/blast/db/blastlibs/est_others
Posted date: May 6, 2010 12:23 AM
Number of letters in database: 29,661,423,624
Number of sequences in database: 52,386,385

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: 52386385
Number of Hits to DB: 550,565,342
Number of extensions: 28480189
Number of successful extensions: 7712874
Number of sequences better than 10.0: 129
Number of HSP's gapped: 7712864
Number of HSP's successfully gapped: 138
Length of query: 2212
Length of database: 29,661,423,624
Length adjustment: 24
Effective length of query: 2188
Effective length of database: 28,404,150,384
Effective search space: 62148281040192
Effective search space used: 62148281040192
X1: 11 (21.8 bits)
X2: 15 (29.7 bits)
X3: 50 (99.1 bits)
S1: 12 (24.3 bits)
S2: 22 (44.1 bits)